

# Main Catalogue

**Edition 23**

**7. Front panels, plug-in units, frame-type plug-in units**

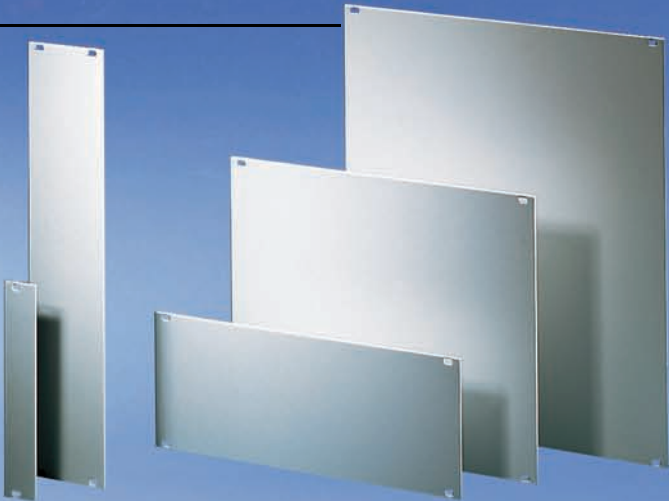


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**Front panels, plug-in units, frame-type plug-in units**

**Front panels**

shielded/unshielded



**Plug-in units**

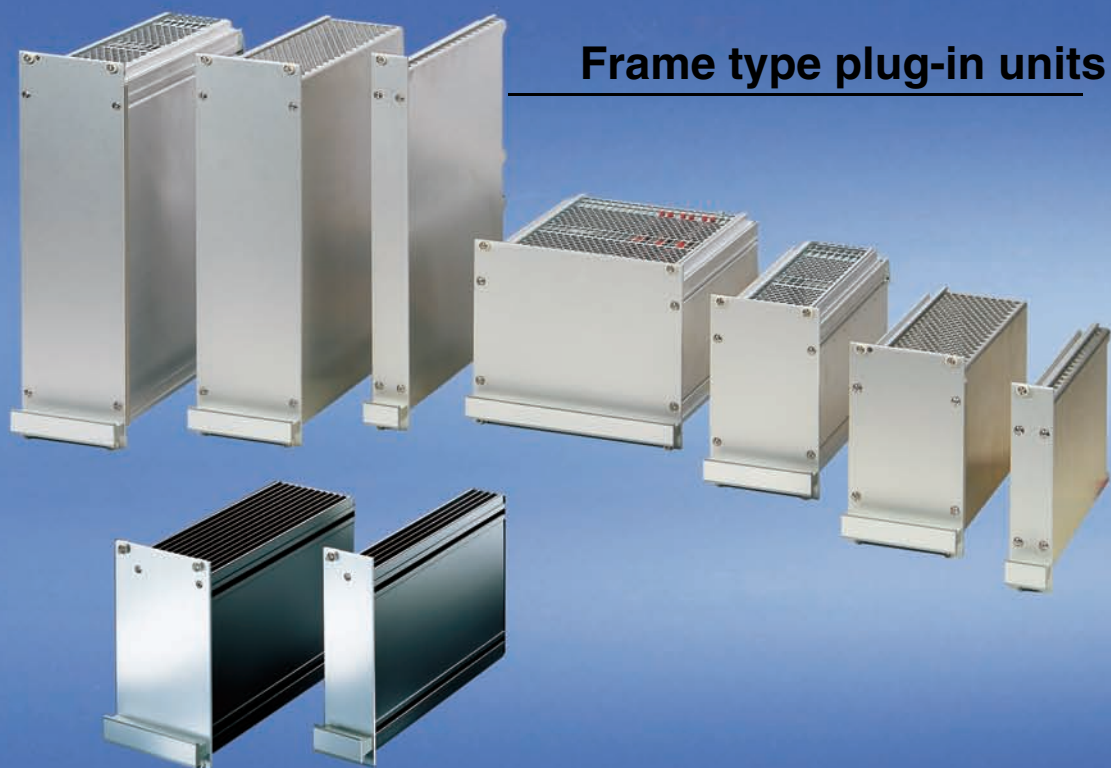


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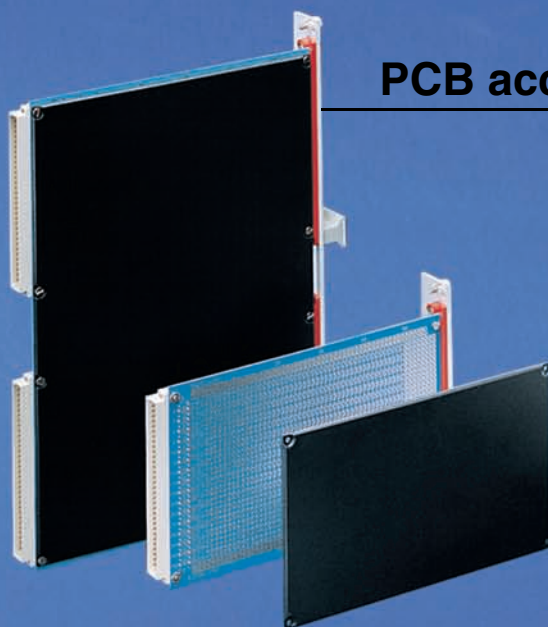




## Front panels, plug-in units, frame-type plug-in units



**Frame type plug-in units**



**PCB accessories**

Overview . . . . 7.0

Front panels . . 7.2

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Frame type  
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PCB  
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Drive unit  
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see chapter  
System  
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|                                                      |          |
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| Cabinets .....                                       | 1        |
| Wall mounted cases .....                             | 2        |
| Accessories for cabinets and wall mounted cases .... | 3        |
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## Front panels



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### Standards

- IEC 60297-3-101/IEEE 1101.1/10



30407004

### ServicePLUS

- e.g. individual colouring
- e.g. custom cut-outs
- e.g. printing
- e.g. mounting service
- e.g. special dimensions

[www.frontpanelexpress.eu](http://www.frontpanelexpress.eu)

**FRONT PANEL  
EXPRESS**



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Downloads and further important information can be found on the Internet under [www.schroff.biz](http://www.schroff.biz)





## Front panels

Overview . . . . 7.2

### Front panels for fitting in subracks and cases

- Extensive standard range with various finishes and materials (aluminium or stainless steel)
- Front Panel Fast Track:  
Fast delivery for customized versions (from 2 days)
- EMC shielding retrofittable



04292001

#### Front panels, unshielded

- Aluminium, natural anodised
- Aluminium, natural pre-anodised, cut edges clean
- Aluminium, front anodised, rear iridescent green chromated
- Other finishes available on request

#### Front panels

Unshielded . . . . 7.4  
Shieldable . . . . 7.5  
EMC stainless  
steel gasket . . . . 7.6  
Assembly tool . . . 7.6



04600006

#### Front panels, shieldable, flat

- With lateral grooves to fit stainless steel EMC gaskets
- Compatible to shielded U profile version



04602004

#### Front panels, shieldable, U profile

- With lateral groove to fix textile EMC gaskets
- Compatible to shielded, flat version
- High stability through U profile

#### Front panels

Shieldable  
(U profile). . . . 7.7  
EMC  
textile gasket . . . 7.8



04295001 04295002

#### Further front panels

- Bottom-hinged front panels
- Front panels with GND/earthing
- Mezzanine front panels
- AdvancedTCA front panels
- MicroTCA front panels
- AdvancedMC front panels

#### Further front panels

Hinged . . . . . 7.9  
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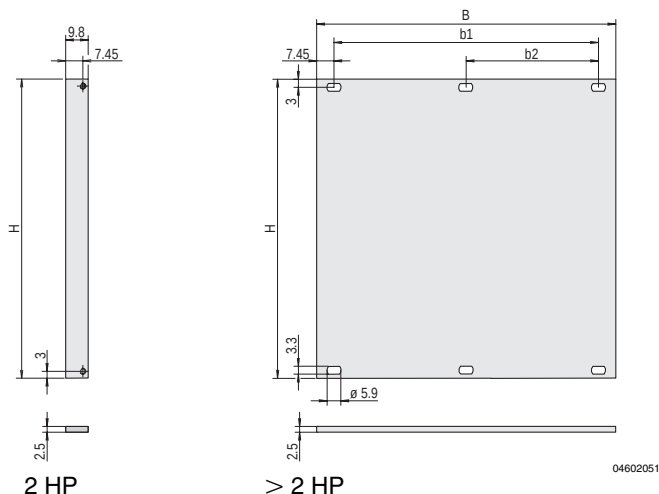
Assembly kit . . . . 7.100

AdvancedTCA  
front panels . . . . 8.16  
MicroTCA  
front panels . . . . 8.52  
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## Front panels

### Front panels, unshielded



■ Front panel, Al, 2.5 mm

■ Versions:

- Al, anodised
- Al, anodised, untreated cut edges
- Al, front anodised, rear colourless chromated

#### Note

■ Other sizes and finishes available on request

■ Please order assembly kit separately, see chapter PCB accessories 7.100

### Order Information

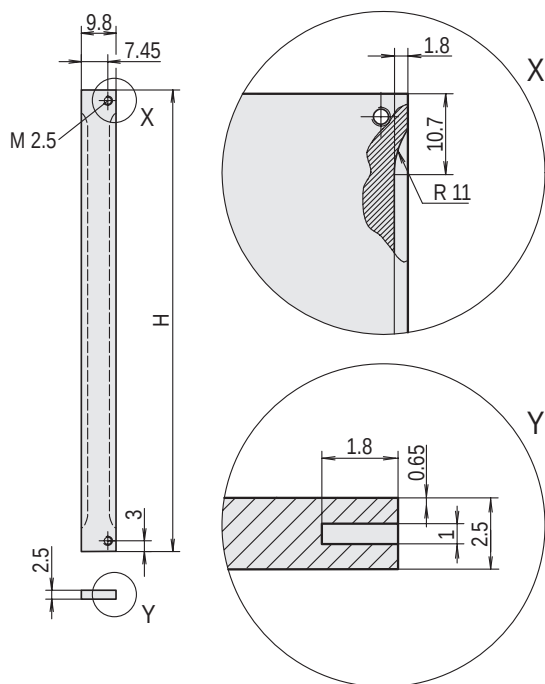
| Height | H     | Width | B     | b1                 | b2                  | Qty<br>1) | Anodised,<br>untreated cut edges | Anodised         | Front anodised, rear<br>colourless chromated |
|--------|-------|-------|-------|--------------------|---------------------|-----------|----------------------------------|------------------|----------------------------------------------|
| U      | mm    | HP    | mm    | mm                 | mm                  | Pieces    | Part no.                         | Part no.         | Part no.                                     |
| 1      | 39.5  | 84    | 426.4 | 411.5              | 203.2               | 1         | –                                | –                | <b>20850-426</b>                             |
| 2      | 84.0  | 84    | 426.4 | 411.5              | 203.2               | 1         | <b>30818-271</b>                 | <b>30807-416</b> | <b>30847-461</b>                             |
| 3      | 128.4 | 2     | 9.8   | –                  | –                   | 1 (SPQ 5) | <b>30810-433</b>                 | <b>30810-432</b> | <b>30847-470</b>                             |
| 3      | 128.4 | 3     | 14.9  | –                  | –                   | 1 (SPQ 5) | <b>30818-272</b>                 | <b>30807-508</b> | <b>30847-471</b>                             |
| 3      | 128.4 | 4     | 20.0  | –                  | –                   | 1 (SPQ 5) | <b>30818-273</b>                 | <b>30807-481</b> | <b>30838-043</b>                             |
| 3      | 128.4 | 5     | 25.0  | –                  | –                   | 1 (SPQ 5) | <b>30818-274</b>                 | <b>30807-510</b> | <b>30838-044</b>                             |
| 3      | 128.4 | 6     | 30.1  | –                  | –                   | 1 (SPQ 5) | <b>30818-275</b>                 | <b>30807-482</b> | <b>30838-045</b>                             |
| 3      | 128.4 | 7     | 35.2  | –                  | –                   | 1 (SPQ 5) | <b>30818-276</b>                 | <b>30807-509</b> | <b>30838-046</b>                             |
| 3      | 128.4 | 8     | 40.3  | 25.4 <sup>2)</sup> | –                   | 1 (SPQ 5) | <b>30818-277</b>                 | <b>30807-484</b> | <b>30838-047</b>                             |
| 3      | 128.4 | 10    | 50.5  | 35.6               | –                   | 1 (SPQ 5) | <b>30818-279</b>                 | <b>30807-483</b> | <b>30838-049</b>                             |
| 3      | 128.4 | 12    | 60.6  | 45.7               | –                   | 1 (SPQ 5) | <b>30818-281</b>                 | <b>30807-485</b> | <b>30838-051</b>                             |
| 3      | 128.4 | 14    | 70.8  | 55.9               | –                   | 1 (SPQ 5) | <b>30818-282</b>                 | <b>30807-501</b> | <b>30838-053</b>                             |
| 3      | 128.4 | 21    | 106.3 | 91.4               | –                   | 1 (SPQ 5) | <b>30818-289</b>                 | <b>30807-487</b> | <b>30838-060</b>                             |
| 3      | 128.4 | 28    | 141.9 | 127.0              | –                   | 1 (SPQ 5) | <b>30818-296</b>                 | <b>30807-496</b> | <b>30838-067</b>                             |
| 3      | 128.4 | 42    | 213.0 | 198.1              | 101.6 <sup>2)</sup> | 1         | <b>30818-310</b>                 | <b>30807-494</b> | <b>30838-081</b>                             |
| 3      | 128.4 | 63    | 319.7 | 304.8              | 157.5               | 1         | <b>30818-331</b>                 | <b>30808-067</b> | <b>30838-102</b>                             |
| 3      | 128.4 | 84    | 426.4 | 411.5              | 203.2               | 1         | <b>30818-352</b>                 | <b>30807-506</b> | <b>30838-123</b>                             |
| 4      | 172.9 | 84    | 426.4 | 411.5              | 203.2               | 1         | <b>30818-434</b>                 | <b>30807-596</b> | <b>30847-465</b>                             |
| 6      | 261.8 | 2     | 9.8   | –                  | –                   | 1 (SPQ 5) | <b>30818-747</b>                 | <b>30818-741</b> | <b>30847-472</b>                             |
| 6      | 261.8 | 4     | 20.0  | –                  | –                   | 1 (SPQ 5) | <b>30818-518</b>                 | <b>30807-778</b> | <b>30838-124</b>                             |
| 6      | 261.8 | 5     | 25.0  | –                  | –                   | 1 (SPQ 5) | <b>30818-519</b>                 | <b>30807-777</b> | <b>30838-125</b>                             |
| 6      | 261.8 | 6     | 30.1  | –                  | –                   | 1 (SPQ 5) | <b>30818-520</b>                 | <b>30807-752</b> | <b>30838-126</b>                             |
| 6      | 261.8 | 7     | 35.2  | –                  | –                   | 1 (SPQ 5) | <b>30818-521</b>                 | –                | <b>30838-127</b>                             |
| 6      | 261.8 | 8     | 40.3  | 25.4 <sup>2)</sup> | –                   | 1 (SPQ 5) | <b>30818-522</b>                 | <b>30807-779</b> | <b>30838-128</b>                             |
| 6      | 261.8 | 10    | 50.5  | 35.6               | –                   | 1 (SPQ 5) | <b>30818-524</b>                 | <b>30807-753</b> | <b>30838-130</b>                             |
| 6      | 261.8 | 12    | 60.6  | 45.7               | –                   | 1 (SPQ 5) | <b>30818-526</b>                 | <b>30807-755</b> | <b>30838-132</b>                             |
| 6      | 261.8 | 14    | 70.8  | 55.9               | –                   | 1 (SPQ 5) | <b>30818-528</b>                 | <b>30807-758</b> | <b>30838-134</b>                             |
| 6      | 261.8 | 16    | 80.9  | 66.0               | –                   | 1 (SPQ 5) | <b>30818-530</b>                 | <b>30807-780</b> | <b>30838-136</b>                             |
| 6      | 261.8 | 21    | 106.3 | 91.4               | –                   | 1 (SPQ 5) | <b>30818-535</b>                 | <b>30807-757</b> | <b>30838-141</b>                             |
| 6      | 261.8 | 28    | 141.9 | 127.0              | –                   | 1 (SPQ 5) | <b>30818-542</b>                 | <b>30807-766</b> | <b>30838-148</b>                             |
| 6      | 261.8 | 42    | 213.0 | 198.1              | 101.6 <sup>2)</sup> | 1         | <b>30818-556</b>                 | <b>30807-764</b> | <b>30838-162</b>                             |
| 6      | 261.8 | 63    | 319.7 | 304.8              | 157.5               | 1         | <b>30818-577</b>                 | <b>30807-771</b> | <b>30838-183</b>                             |
| 6      | 261.8 | 84    | 426.4 | 411.5              | 203.2               | 1         | <b>30818-598</b>                 | <b>30807-776</b> | <b>30838-204</b>                             |
| 9      | 395.1 | 84    | 426.4 | 411.5              | 203.2               | 1         | –                                | –                | <b>30847-556</b>                             |

1) SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

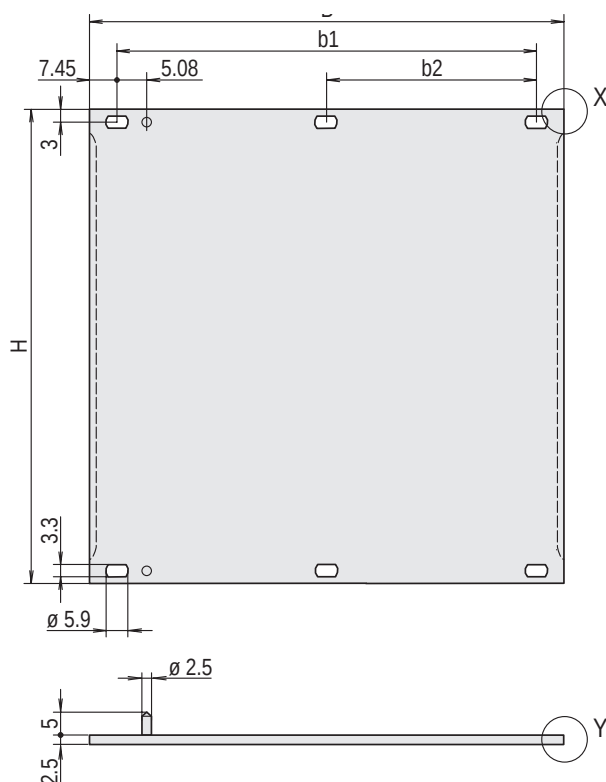
2) This dimension is only available for version "front anodised, rear iridescent green chromated" version

# Front panels

## Front panels shieldable



2 HP



> 2 HP

■ Front panel, Al, 2.5 mm, front anodised, rear iridescent green chromated, 2 alignment pins pressed-in, stainless steel

■ Shielding with stainless steel EMC gasket

### Order Information

| Height H<br>U | mm    | Width B<br>HP | mm    | b1<br>mm | b2<br>mm | Align-<br>ment<br>pin | Qty<br>Pieces | Part no.         |
|---------------|-------|---------------|-------|----------|----------|-----------------------|---------------|------------------|
| 2             | 84    | 84            | 426.4 | 411.5    | 203.2    | —                     | 1             | <b>30846-588</b> |
| 3             | 128.4 | 2             | 9.8   | —        | —        | —                     | 1 (SPQ 5)     | <b>30846-864</b> |
| 3             | 128.4 | 3             | 14.9  | —        | —        | x                     | 1 (SPQ 5)     | <b>20846-425</b> |
| 3             | 128.4 | 4             | 20    | —        | —        | x                     | 1 (SPQ 5)     | <b>20846-426</b> |
| 3             | 128.4 | 5             | 25    | —        | —        | x                     | 1 (SPQ 5)     | <b>20846-427</b> |
| 3             | 128.4 | 6             | 30.1  | —        | —        | x                     | 1 (SPQ 5)     | <b>20846-428</b> |
| 3             | 128.4 | 7             | 35.2  | —        | —        | x                     | 1 (SPQ 5)     | <b>20846-429</b> |
| 3             | 128.4 | 8             | 40.3  | 25.4     | —        | x                     | 1 (SPQ 5)     | <b>20846-430</b> |
| 3             | 128.4 | 10            | 50.5  | 35.6     | —        | x                     | 1 (SPQ 5)     | <b>20846-431</b> |
| 3             | 128.4 | 12            | 60.6  | 45.7     | —        | x                     | 1 (SPQ 5)     | <b>20846-432</b> |
| 3             | 128.4 | 14            | 70.8  | 55.9     | —        | x                     | 1 (SPQ 5)     | <b>20846-433</b> |
| 3             | 128.4 | 21            | 106.3 | 91.4     | —        | x                     | 1 (SPQ 5)     | <b>20846-434</b> |
| 3             | 128.4 | 28            | 141.9 | 127      | —        | x                     | 1 (SPQ 5)     | <b>20846-436</b> |
| 3             | 128.4 | 42            | 213   | 198.1    | 101.6    | x                     | 1             | <b>20846-437</b> |
| 3             | 128.4 | 63            | 319.7 | 304.8    | 157.5    | x                     | 1             | <b>20846-438</b> |
| 3             | 128.4 | 84            | 426.4 | 411.5    | 203.2    | —                     | 1             | <b>30846-676</b> |
| 4             | 172.9 | 84            | 426.4 | 411.5    | 203.2    | —                     | 1             | <b>30846-683</b> |
| 6             | 261.8 | 2             | 9.8   | —        | —        | —                     | 1 (SPQ 5)     | <b>30846-865</b> |
| 6             | 261.8 | 4             | 20    | —        | —        | x                     | 1 (SPQ 5)     | <b>20846-443</b> |
| 6             | 261.8 | 5             | 25    | —        | —        | x                     | 1 (SPQ 5)     | <b>20846-444</b> |
| 6             | 261.8 | 6             | 30.1  | —        | —        | x                     | 1 (SPQ 5)     | <b>20846-445</b> |
| 6             | 261.8 | 7             | 35.2  | —        | —        | x                     | 1 (SPQ 5)     | <b>20846-446</b> |
| 6             | 261.8 | 8             | 40.3  | 25.4     | —        | x                     | 1 (SPQ 5)     | <b>20846-447</b> |
| 6             | 261.8 | 10            | 50.5  | 35.6     | —        | x                     | 1 (SPQ 5)     | <b>20846-448</b> |
| 6             | 261.8 | 12            | 60.6  | 45.7     | —        | x                     | 1 (SPQ 5)     | <b>20846-449</b> |
| 6             | 261.8 | 14            | 70.8  | 55.9     | —        | x                     | 1 (SPQ 5)     | <b>20846-450</b> |
| 6             | 261.8 | 16            | 80.9  | 66       | —        | x                     | 1 (SPQ 5)     | <b>20846-456</b> |
| 6             | 261.8 | 21            | 106.3 | 91.4     | —        | x                     | 1 (SPQ 5)     | <b>20846-451</b> |
| 6             | 261.8 | 28            | 141.9 | 127      | —        | x                     | 1 (SPQ 5)     | <b>20846-452</b> |
| 6             | 261.8 | 42            | 213   | 198.1    | 101.6    | x                     | 1             | <b>20846-453</b> |
| 6             | 261.8 | 63            | 319.7 | 304.8    | 157.5    | x                     | 1             | <b>20846-454</b> |
| 6             | 261.8 | 84            | 426.4 | 411.5    | 203.2    | —                     | 1             | <b>30846-771</b> |
| 9             | 395.1 | 84            | 426.4 | 411.5    | 203.2    | —                     | 1             | <b>30846-859</b> |

Delivery is exclusively in Standard Pack Quantity (SPQ): Please order at least 5 pieces or a multiple. Pricing is per individual item.

### Note

■ Please order assembly kit separately, see chapter PCB accessories 7.100

■ Please order stainless steel EMC gasket separately, see page 7.6

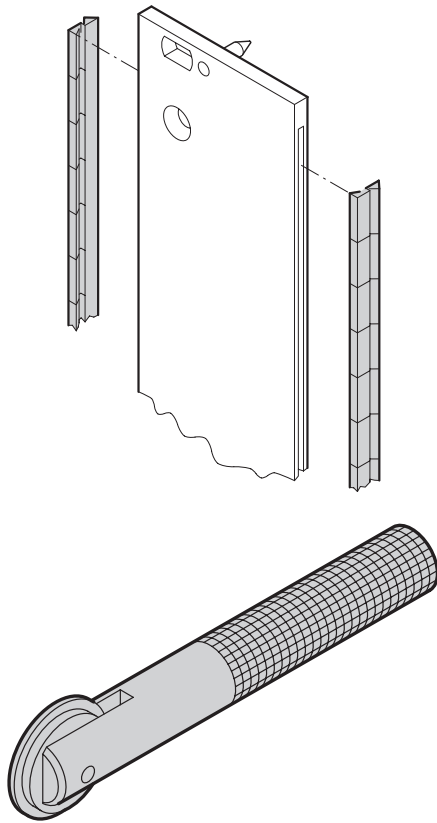


For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.



## Front panels

### EMC gaskets (stainless steel)



Assembly tool

- The stainless steel EMC gaskets are inserted into the lateral slots of the shieldable front panels (2 pieces per front panel)

#### Delivery comprises

| Item | Description                  |
|------|------------------------------|
| 1    | EMC gasket (stainless steel) |

#### Order Information

| Height<br>U                                             | Height<br>mm | Qty/PU | Part no.         |
|---------------------------------------------------------|--------------|--------|------------------|
| 2                                                       | 52           | 10     | <b>21101-775</b> |
| 3                                                       | 97           | 10     | <b>21101-705</b> |
| 3                                                       | 97           | 100    | <b>21101-706</b> |
| 4                                                       | 142          | 10     | <b>21101-713</b> |
| 4                                                       | 142          | 100    | <b>21101-714</b> |
| 6                                                       | 232          | 10     | <b>21101-707</b> |
| 6                                                       | 232          | 100    | <b>21101-708</b> |
| 9                                                       | 367          | 10     | <b>21101-709</b> |
| 9                                                       | 367          | 100    | <b>21101-710</b> |
| Assembly tool for EMC gasket (stainless steel), 1 piece |              |        | <b>24560-270</b> |

#### Note

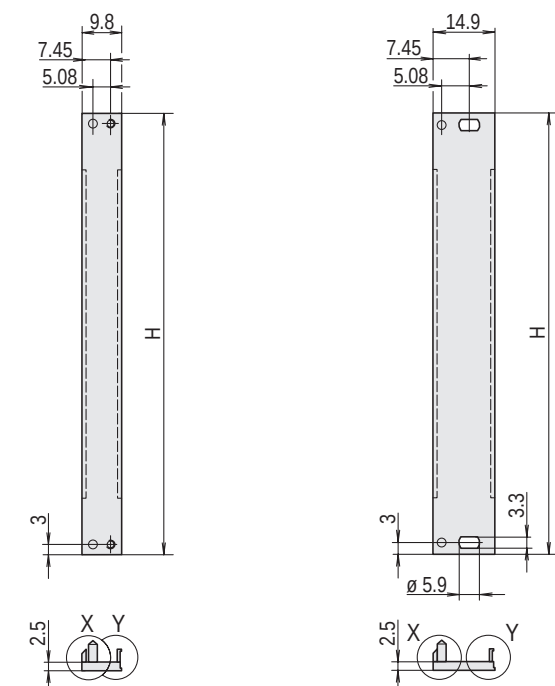
- Please order assembly tool separately



For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

# Front panels

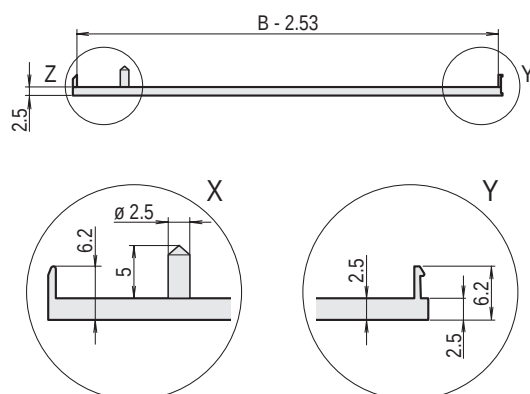
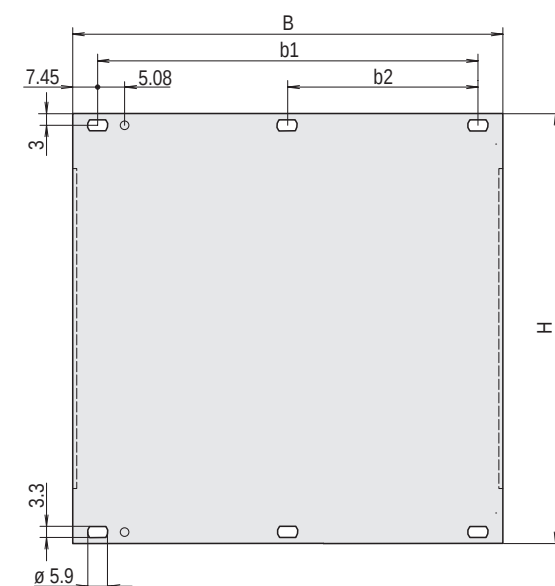
## Front panels, U profile, shieldable



2 HP

3 HP

04608155 04608158



> 3 HP

04608156

■ High stability through U profile

■ Front panel, U profile, Al, front anodised, rear conductive, 2 alignment pins pressed-in, stainless steel

### Order Information

| Height<br>U | H<br>mm | Width<br>HP | B<br>mm | b1<br>mm | b2<br>mm | Align-<br>ment<br>pin | Qty<br>Pieces | Part no.         |
|-------------|---------|-------------|---------|----------|----------|-----------------------|---------------|------------------|
| 2           | 84      | 84          | 426.4   | 411.5    | 203.2    | —                     | 1 (SPQ 5)     | <b>20848-262</b> |
| 3           | 128.4   | 2           | 9.8     | —        | —        | x                     | 1 (SPQ 5)     | <b>30849-001</b> |
| 3           | 128.4   | 3           | 14.9    | —        | —        | x                     | 1 (SPQ 5)     | <b>30849-004</b> |
| 3           | 128.4   | 4           | 20      | —        | —        | x                     | 1 (SPQ 5)     | <b>30848-354</b> |
| 3           | 128.4   | 5           | 25      | —        | —        | x                     | 1 (SPQ 5)     | <b>30848-378</b> |
| 3           | 128.4   | 6           | 30.1    | —        | —        | x                     | 1 (SPQ 5)     | <b>30848-380</b> |
| 3           | 128.4   | 7           | 35.2    | —        | —        | x                     | 1 (SPQ 5)     | <b>30848-382</b> |
| 3           | 128.4   | 8           | 40.3    | 25.4     | —        | x                     | 1 (SPQ 5)     | <b>30848-356</b> |
| 3           | 128.4   | 10          | 50.5    | 35.6     | —        | x                     | 1 (SPQ 5)     | <b>30848-386</b> |
| 3           | 128.4   | 12          | 60.6    | 45.7     | —        | x                     | 1 (SPQ 5)     | <b>30848-358</b> |
| 3           | 128.4   | 14          | 70.8    | 55.9     | —        | x                     | 1 (SPQ 5)     | <b>20848-013</b> |
| 3           | 128.4   | 16          | 80.9    | 66       | —        | x                     | 1 (SPQ 5)     | <b>20848-015</b> |
| 3           | 128.4   | 21          | 106.3   | 91.4     | —        | x                     | 1 (SPQ 5)     | <b>20848-020</b> |
| 3           | 128.4   | 28          | 141.9   | 127      | —        | x                     | 1 (SPQ 5)     | <b>20848-027</b> |
| 3           | 128.4   | 42          | 213     | 198.1    | 101.6    | x                     | 1             | <b>20848-047</b> |
| 3           | 128.4   | 63          | 319.7   | 304.8    | 157.5    | x                     | 1             | <b>20848-068</b> |
| 3           | 128.4   | 84          | 426.4   | 411.5    | 203.2    | —                     | 1             | <b>20848-097</b> |
| 4           | 172.9   | 84          | 426.4   | 411.5    | 203.2    | —                     | 1             | <b>20848-271</b> |
| 6           | 261.8   | 2           | 9.8     | —        | —        | x                     | 1 (SPQ 5)     | <b>30849-002</b> |
| 6           | 261.8   | 4           | 20      | —        | —        | x                     | 1 (SPQ 5)     | <b>30848-355</b> |
| 6           | 261.8   | 5           | 25      | —        | —        | x                     | 1 (SPQ 5)     | <b>30848-379</b> |
| 6           | 261.8   | 6           | 30.1    | —        | —        | x                     | 1 (SPQ 5)     | <b>30848-381</b> |
| 6           | 261.8   | 7           | 35.2    | —        | —        | x                     | 1 (SPQ 5)     | <b>30848-383</b> |
| 6           | 261.8   | 8           | 40.3    | 25.4     | —        | x                     | 1 (SPQ 5)     | <b>30848-357</b> |
| 6           | 261.8   | 10          | 50.5    | 35.6     | —        | x                     | 1 (SPQ 5)     | <b>30848-387</b> |
| 6           | 261.8   | 12          | 60.6    | 45.7     | —        | x                     | 1 (SPQ 5)     | <b>30848-359</b> |
| 6           | 261.8   | 14          | 70.8    | 55.9     | —        | x                     | 1 (SPQ 5)     | <b>20848-106</b> |
| 6           | 261.8   | 16          | 80.9    | 66       | —        | x                     | 1 (SPQ 5)     | <b>20848-108</b> |
| 6           | 261.8   | 21          | 106.3   | 91.4     | —        | x                     | 1 (SPQ 5)     | <b>20848-113</b> |
| 6           | 261.8   | 28          | 141.9   | 127      | —        | x                     | 1 (SPQ 5)     | <b>20848-120</b> |
| 6           | 261.8   | 42          | 213     | 198.1    | 101.6    | x                     | 1             | <b>20848-139</b> |
| 6           | 261.8   | 63          | 319.7   | 304.8    | 157.5    | x                     | 1             | <b>20848-160</b> |
| 6           | 261.8   | 84          | 426.4   | 411.5    | 208.3    | —                     | 1             | <b>20848-189</b> |
| 9           | 395.1   | 84          | 426.4   | 411.5    | 203.2    | —                     | 1             | <b>20848-280</b> |

Delivery is exclusively in Standard Pack Quantity (SPQ): Please order at least 5 pieces or a multiple. Pricing is per individual item.

### Note

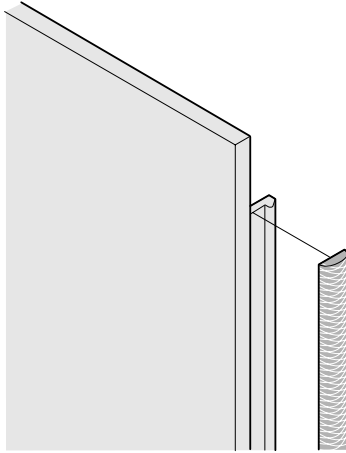
■ Differences in finish between 2 ... 12 HP and 14 ... 84 HP  
 – 2 ... 12 HP: one-part U-profile  
 – 14 ... 84 HP: multi-part U-profile (front panel with crimped profiles)

■ Please order assembly kit separately, see chapter PCB accessories 7.100

■ Please order textile EMC gasket separately, see page 7.8

## Front panels

### EMC gaskets (textile)



04602054

- The textile EMC gaskets are fixed to the front panel, always on the right-hand side of the profile
- Temperature range -40 °C ... +70 °C

#### Delivery comprises (kit)

| Item | Description                                                                  |
|------|------------------------------------------------------------------------------|
| 1    | EMC gasket (textile), core: foam, sleeve: textile cladding with CuNi coating |

#### Order Information

| Height<br>U | Height<br>mm | Qty/PU | Part no.         |
|-------------|--------------|--------|------------------|
| 3           | 97           | 10     | <b>21101-853</b> |
| 3           | 97           | 100    | <b>21101-854</b> |
| 6           | 232          | 10     | <b>21101-855</b> |
| 6           | 232          | 100    | <b>21101-856</b> |
| 9           | 365          | 10     | <b>21101-859</b> |
| 9           | 365          | 100    | <b>21101-904</b> |



For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.



# Front panels

## Front panels, bottom-hinged



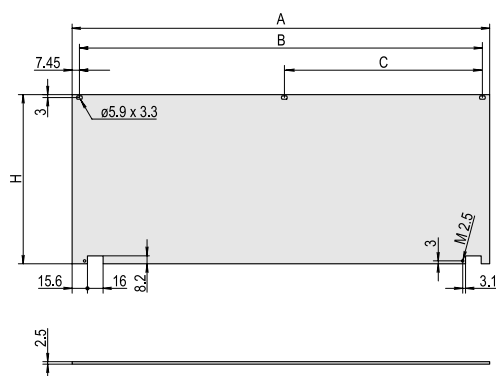
- For subracks and cases, can be removed at 135° (subracks as well as cases ratiopacPRO, propacPRO, compacPRO)
- The usable width is not restricted
- Assembly on horizontal rails
- 2 versions:
  - unshielded
  - shielded, U front panel with EMC gasket (textile)

### Delivery comprises (kit)

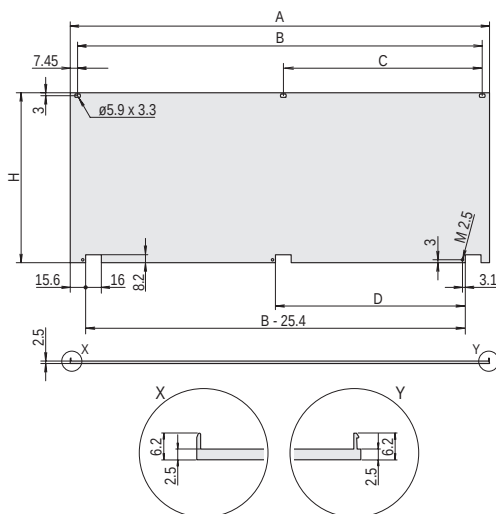
| Item | Qty        |          | Description                                                                                 |
|------|------------|----------|---------------------------------------------------------------------------------------------|
|      | Unshielded | Shielded |                                                                                             |
| 1    | 1          | -        | Front panel, hinged, Al, 2.5 mm, anodised, cut edges plain                                  |
| 1a   | -          | 1        | Front panel, U profile, hinged, Al, 2.5 mm, front anodised, rear iridescent green chromated |
| 2    | 2          | 3        | Hinge, Zn die-cast, nickel-plated                                                           |
| 3    | 2          | 3        | Sleeve, PA                                                                                  |
| 4    | 2          | 3        | Knurled screw M2.5 x 12.3, nickel-plated                                                    |
| 5    | -          | 1        | EMC gasket (textile)core: foam, sleeve: textile cladding with CuNi coating                  |
| 6    | 1          | 1        | Assembly kit                                                                                |

### Note

- Unshielded: Dimension C for 84 HP only



Unshielded



Shielded

### Order Information

| Dimensions |       |       |       |                     |       |       | Shielded         | Unshielded       |
|------------|-------|-------|-------|---------------------|-------|-------|------------------|------------------|
| Height     | Width | A     | B     | C                   | D     | H     | Part no.         | Part no.         |
| U          | HP    | mm    | mm    | mm                  | mm    | mm    |                  |                  |
| 3          | 28    | 141.9 | 127.0 | —                   | —     | 128.4 | <b>20848-608</b> | <b>20838-280</b> |
| 3          | 42    | 213.0 | 198.1 | 101.6               | 86.4  | 128.4 | <b>20848-599</b> | <b>20838-271</b> |
| 3          | 63    | 319.7 | 304.8 | 157.5               | 137.2 | 128.4 | <b>20848-600</b> | <b>20838-272</b> |
| 3          | 84    | 426.4 | 411.5 | 208.3 <sup>1)</sup> | 193.0 | 128.4 | <b>20848-601</b> | <b>20838-273</b> |
| 4          | 42    | 213.0 | 198.1 | 101.6               | 86.4  | 172.9 | <b>20848-605</b> | <b>20838-277</b> |
| 4          | 63    | 319.7 | 304.8 | 157.5               | 137.2 | 172.9 | <b>20848-606</b> | <b>20838-278</b> |
| 4          | 84    | 426.4 | 411.5 | 208.3 <sup>1)</sup> | 193.0 | 172.9 | <b>20848-607</b> | <b>20838-279</b> |
| 6          | 28    | 141.9 | 127.0 | —                   | —     | 261.8 | <b>20848-696</b> | —                |
| 6          | 42    | 213.0 | 198.1 | 101.6               | 86.4  | 261.8 | <b>20848-602</b> | <b>20838-274</b> |
| 6          | 63    | 319.7 | 304.8 | 157.5               | 137.2 | 261.8 | <b>20848-603</b> | <b>20838-275</b> |
| 6          | 84    | 426.4 | 411.5 | 208.3 <sup>1)</sup> | 193.0 | 261.8 | <b>20848-604</b> | <b>20838-276</b> |

1) Dimension with unshielded front panel only

## Front panels

### Front panel, hinged, shielded



- Assembly on horizontal rails
- Front panel with EMC gasket (textile)
- Hinge can be fitted left or right as desired
- Suitable for europacPRO subracks and  
ratiopacPRO, compacPRO and propacPRO cases

**Delivery comprises** (kit)

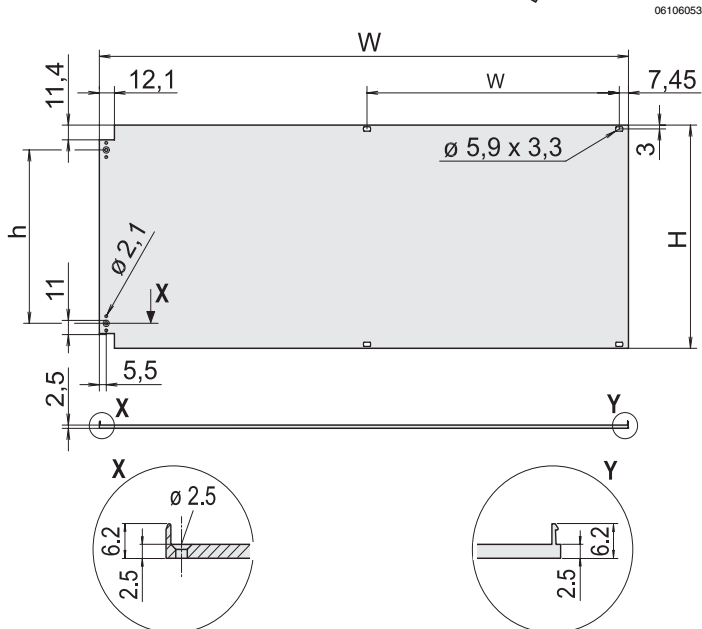
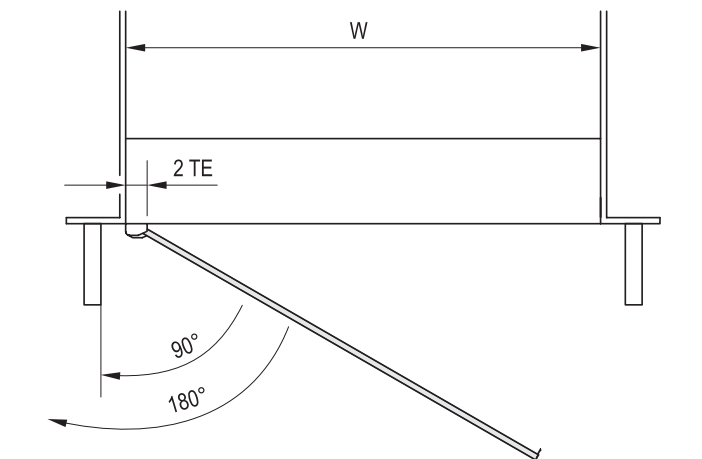
| Item | Qty | Description                                                                      |
|------|-----|----------------------------------------------------------------------------------|
| 1    | 1   | Front panel, hinged, Al, 2.5 mm, front anodised, rear iridescent green chromated |
| 2    | 2   | Hinge, Zn die-cast, chrome-plated                                                |
| 3    | 1   | EMC gasket (textile)<br>core: foam, sleeve: textile cladding with CuNi coating   |
| 4    | 1   | Assembly kit                                                                     |

## Order Information

| Height<br>U | H<br>mm | h<br>mm | W<br>mm | w<br>mm | Part no.         |
|-------------|---------|---------|---------|---------|------------------|
| 3           | 128.4   | 89.9    | 426.4   | 203.2   | <b>20848-611</b> |
| 6           | 261.8   | 223.2   | 426.4   | 203.2   | <b>20848-617</b> |

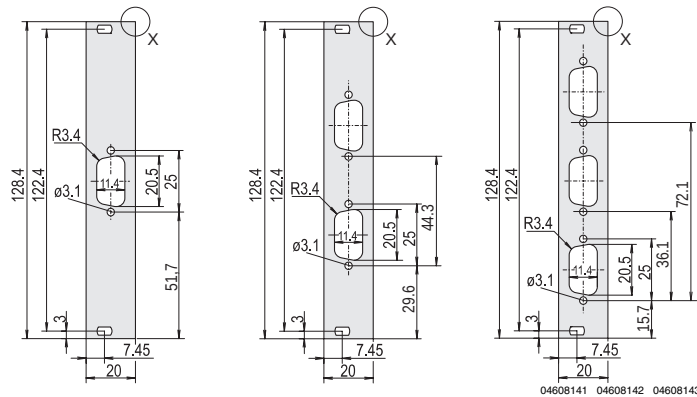


**For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)**  
oneClick search code = Part no.

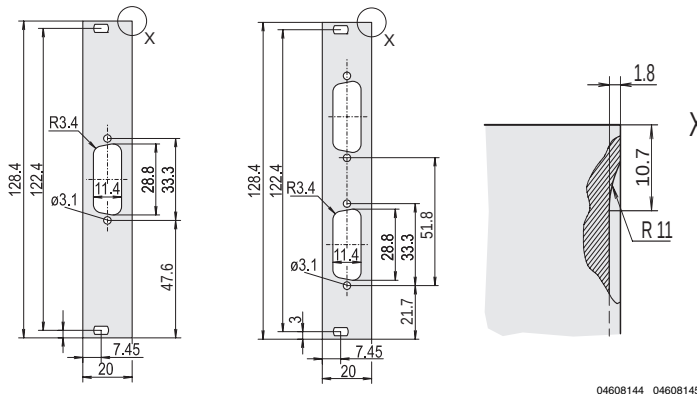


# Front panels

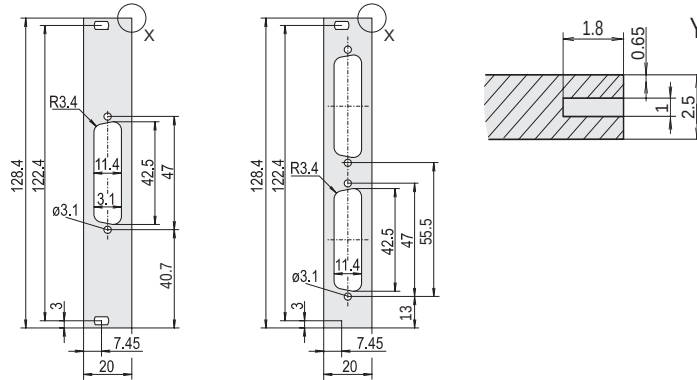
## Front panels for D-Sub connectors



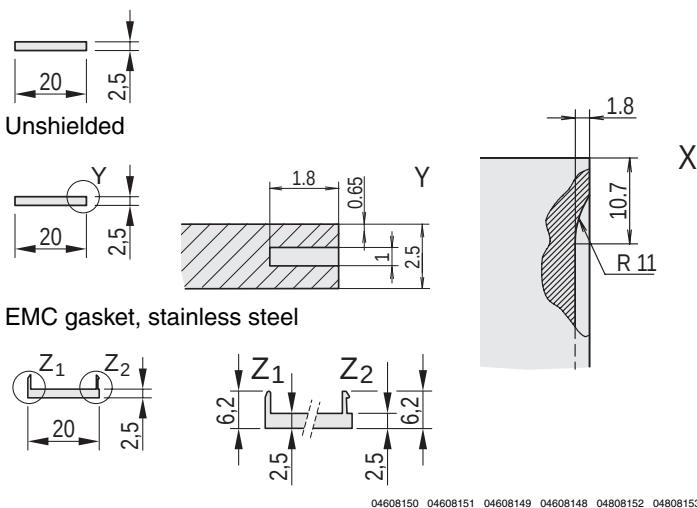
Cut-out 9-pin



Cut-out 15-pin



Cut-out 25-pin



For textile EMC gasket

- 3 U/4 HP
- Aluminium, front anodised, rear iridescent green chromated
- Shielding through stainless steel EMC gasket or textile EMC gasket (please order separately)

### Delivery comprises

| Item | Description                                                                                                |
|------|------------------------------------------------------------------------------------------------------------|
| 1a   | Front panel, Al, 2.5 mm, front anodised, rear iridescent green chromated                                   |
| 1b   | Front panel, Al, 2.5 mm, front anodised, rear iridescent green chromated; for EMC gasket (stainless steel) |
| 1c   | Front panel, U profile, Al, 2.5 mm, front anodised, rear conductive; for EMC gasket (textile)              |

### Order Information

| Cut-out    | Qty       | Unshielded       | For EMC gasket   |                  |
|------------|-----------|------------------|------------------|------------------|
|            |           |                  | Stainless steel  | Textile          |
|            | Pieces    | Part no.         | Part no.         | Part no.         |
|            |           | 1a               | 1b               | 1c               |
| 1 × 9-pin  | 1 (SPQ 5) | <b>30118-341</b> | <b>30118-348</b> | <b>30849-749</b> |
| 2 × 9-pin  | 1 (SPQ 5) | <b>30118-344</b> | <b>30118-351</b> | <b>30849-750</b> |
| 3 × 9-pin  | 1 (SPQ 5) | <b>30118-347</b> | <b>30118-354</b> | <b>30849-751</b> |
| 1 × 15-pin | 1 (SPQ 5) | <b>30118-342</b> | <b>30118-349</b> | <b>30849-752</b> |
| 2 × 15-pin | 1 (SPQ 5) | <b>30118-345</b> | <b>30118-352</b> | <b>30849-753</b> |
| 1 × 25-pin | 1 (SPQ 5) | <b>30118-343</b> | <b>30118-350</b> | <b>30849-754</b> |
| 2 × 25-pin | 1 (SPQ 5) | <b>30118-346</b> | <b>30118-353</b> | <b>30849-755</b> |

Delivery is exclusively in Standard Pack Quantity (SPQ): Please order at least 5 pieces or a multiple. Pricing is per individual item.

### Note

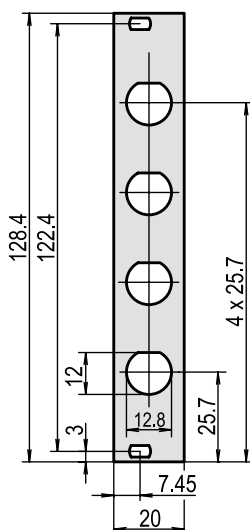
- Please order assembly kit separately, see chapter PCB accessories 7.100
- Please order stainless steel EMC gasket separately, see page 7.6
- Please order textile EMC gasket separately, see page 7.8



For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

## Front panels

### Front panels for Coax connectors



04602057

■ 3 U/4 HP

■ Aluminium, 2.5 mm, front anodised, rear iridescent green chromated

#### Order Information

| Description                  | Qty/PU | Part no.         |
|------------------------------|--------|------------------|
| Cut-out 4 x Coax, unshielded | 1      | <b>30118-355</b> |

#### Note

■ Please order assembly kit separately, see page 7.100



For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

### Front panels 3 U with GND/earthing connection



02998001

■ Earthed front panel (protection class 1)

#### Delivery comprises (items 1 – 3 assembled)

| Item | Qty | Description                                                                                         |
|------|-----|-----------------------------------------------------------------------------------------------------|
| 1    | 1   | Front panel 3 U, Al, 2.5 mm, front anodised, rear colourless chromated with GND/earthing connection |
| 2    | 4   | Plastic sleeve, PA, grey                                                                            |
| 3    | 4   | Collar screw M2.5 x 11 and 12.3 Pozidrive, St, nickel-plated                                        |
| 4    | 1   | GND/earthing kit, GND/earthing cable 320 mm                                                         |

#### Order Information

| Height<br>U | Width<br>HP | Qty<br>Pieces | Part no.         |
|-------------|-------------|---------------|------------------|
| 3           | 7           | 1 (SPQ 5)     | <b>20119-159</b> |
| 3           | 14          | 1 (SPQ 5)     | <b>20119-160</b> |
| 3           | 21          | 1 (SPQ 5)     | <b>20119-161</b> |
| 3           | 28          | 1 (SPQ 5)     | <b>20119-162</b> |
| 3           | 42          | 1             | <b>20119-163</b> |

Delivery is exclusively in Standard Pack Quantity (SPQ): Please order at least 5 pieces or a multiple. Pricing is per individual item.

#### Note

■ Please order assembly kit separately, see chapter PCB accessories 7.100

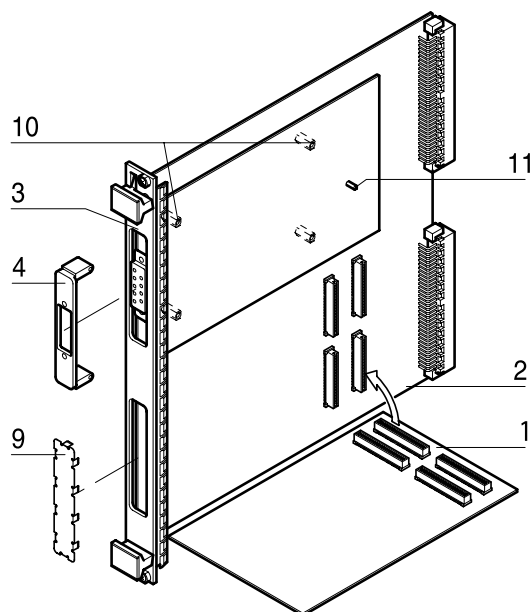


For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.



## Front panels

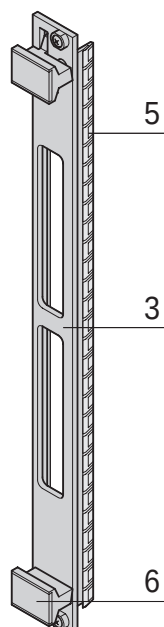
### Mezzanine front panels



MPA44437

- Based on PCI 2.2 specification  
(PCI = Peripheral Component Interface)
- In accordance with PMC mezzanine specification IEEE P 1386

### PMC mezzanine front panel with handle, shielded



MPA44845

- PMC = PCI Mezzanine Card
- For module size 149 x 74 mm
- In accordance with specification IEEE P1386  
(CMC= Common Mezzanine Card)
- 6 U/4 HP front panel with EMC gasket (stainless steel) and front handles

#### Delivery comprises (assembled)

| Item | Qty | Description                                                |
|------|-----|------------------------------------------------------------|
| 3    | 1   | PMC front panel, Al, 6 U, 4 HP, iridescent green chromated |
| 5    | 1   | EMC gasket (stainless steel)                               |
| 6    | 2   | Front handle                                               |

#### Order Information

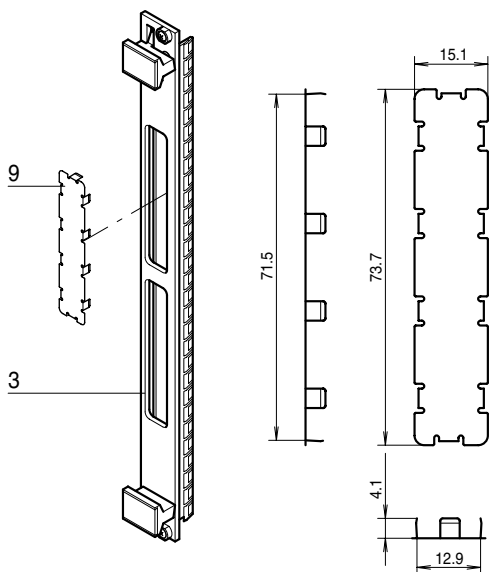
| Item | Description                 | Part no.  |
|------|-----------------------------|-----------|
| 3    | Front panel with 2 cut-outs | 20897-950 |



For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

## Front panels

### EMC cover for PMC mezzanine front panel cut-outs



MPA44847

- EMC cover to close unused cut-outs in PMC mezzanine front panels
- Material stainless steel, 0.2 mm
- Colour: black or bright

#### Order Information

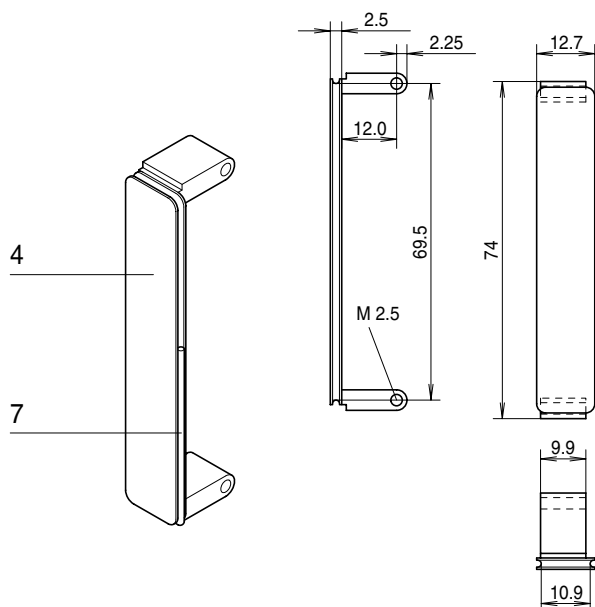
| Colour | Qty        | Part no.         |
|--------|------------|------------------|
| Black  | 1 (SPQ 10) | <b>60835-024</b> |
| Bright | 1 (SPQ 10) | <b>60835-022</b> |

Delivery is exclusively in Standard Pack Quantity (SPQ): Please order at least 10 pieces or a multiple. Pricing is per individual item.



For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

### PMC mezzanine front panels



MPA44846

- The mezzanine front panel is fitted into the PMC front panel cut-outs; EMC shielding is provided through a conductive O-ring
- Material:
  - Aluminium profile (anodised, conductive surface)
  - Zinc die-cast (untreated, black or chrome-plated, mat)

#### Delivery comprises (kit)

| Item | Qty | Description                                            |
|------|-----|--------------------------------------------------------|
| 4    | 1   | PMC mezzanine front panel, Zn die-cast or Al extrusion |
| 7    | 1   | EMC gasket (O-ring), Cho-Seal                          |

#### Order Information

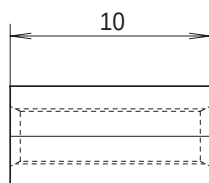
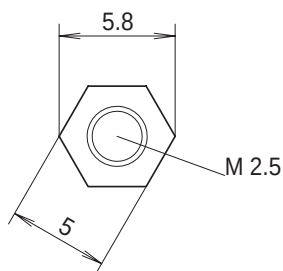
| PMC mezzanine front panel                                               | Qty/PU | With EMC gasket  | Without EMC gasket |
|-------------------------------------------------------------------------|--------|------------------|--------------------|
| <b>Material</b>                                                         |        | <b>Part no.</b>  | <b>Part no.</b>    |
| Aluminium extrusion, anodised, conductive contact surfaces              | 1      | <b>20835-598</b> | –                  |
| Aluminium extrusion, anodised, conductive contact surfaces              | 10     | <b>20835-889</b> | <b>20835-899</b>   |
| Zinc die-cast, untreated                                                | 1      | <b>20835-890</b> | –                  |
| Zinc die-cast, untreated                                                | 10     | <b>20835-893</b> | <b>20835-896</b>   |
| Zinc die-cast, black, chromated                                         | 1      | <b>20835-922</b> | –                  |
| Zinc die-cast, black, chromated                                         | 10     | <b>20835-924</b> | <b>20835-931</b>   |
| Zinc die-cast, chrome-plated, mat                                       | 1      | <b>20835-923</b> | –                  |
| Zinc die-cast, chrome-plated, mat                                       | 10     | <b>20835-928</b> | <b>20835-929</b>   |
| <b>Cheesehead screw M2.5 × 5 mm, PU 100 pieces</b>                      |        |                  | <b>21100-624</b>   |
| <b>EMC gasket O-ring, 1 piece</b><br>(Standard Pack Quantity 10 pieces) |        |                  | <b>60835-021</b>   |



For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

## Front panels

### Spacer for assembly of PMC mezzanine boards



MPA44850

#### Order Information

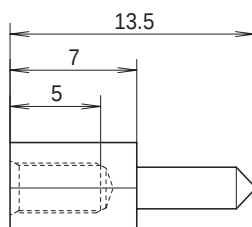
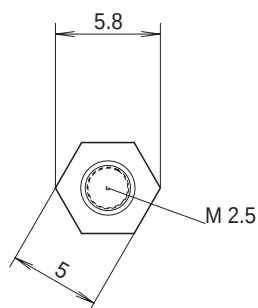
| Description | Item | Material           | Qty        | Part no.         |
|-------------|------|--------------------|------------|------------------|
| Spacer      | 10   | St,<br>zinc-plated | 1 (SPQ 10) | <b>60897-278</b> |

Delivery is exclusively in Standard Pack Quantity (SPQ): Please order at least 10 pieces or a multiple. Pricing is per individual item.



For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

### Voltage keying/coding pin for PMC mezzanine boards



MPZU6325

- To prevent confusion on installation of mezzanine boards, keying/coding pins are screwed onto the VMEbus boards for 3.3 V or 5 V operation. The mezzanine boards have a drilled hole at the corresponding position. The keying/coding pin thus ensures that only mezzanine boards with the same voltage compatibility are inserted. Two pieces are necessary for double boards.

#### Order Information

| Description                    | Item | Material           | Qty        | Part no.         |
|--------------------------------|------|--------------------|------------|------------------|
| Keying/coding pin<br>5 V/3.3 V | 11   | St,<br>zinc-plated | 1 (SPQ 10) | <b>60827-026</b> |

Delivery is exclusively in Standard Pack Quantity (SPQ): Please order at least 10 pieces or a multiple. Pricing is per individual item.



For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

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Climate control .... 4

Desk-top cases .... 5

Subracks/  
19" chassis ..... 6

Front panels,  
plug-in units ..... 7

Systems ..... 8

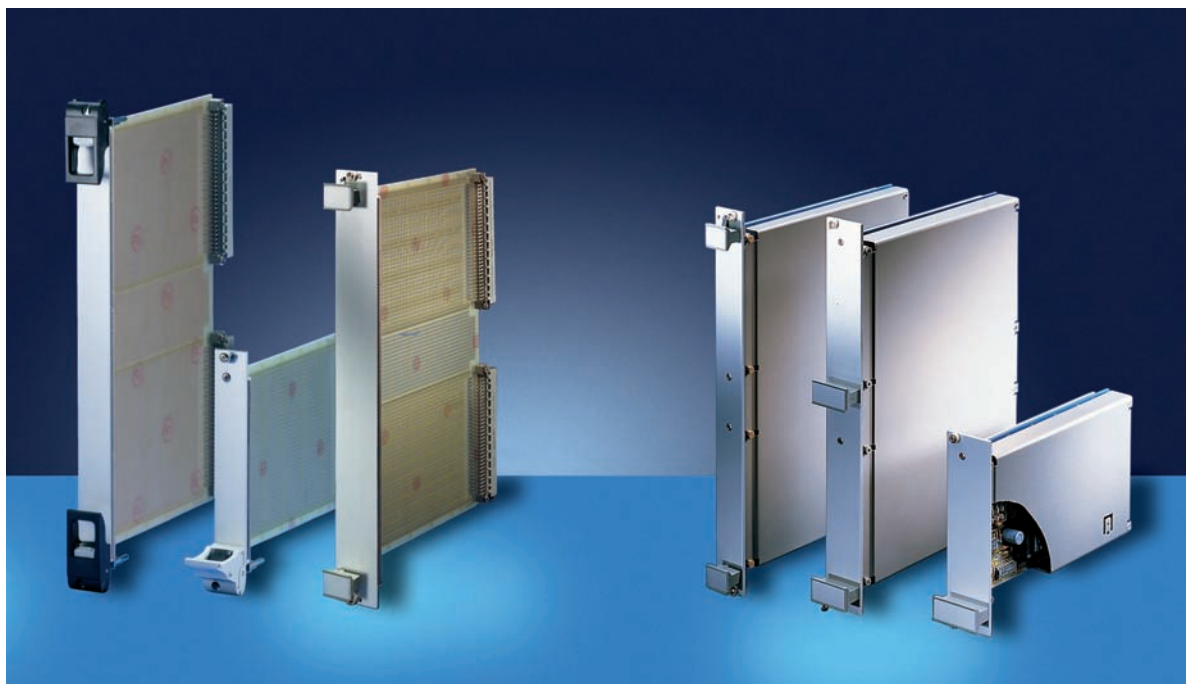
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Backplanes ..... 10

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panel component  
system ..... 11

Appendix ..... 12

## Plug-in units



04603001

### Plug-in units as kit or individual parts

- Front handles in different designs
- Upgradable EMC shielding

### Standards

- IEC 60297-3-101 / IEEE 1101.1/11
- IEC 60297-3-102 / IEEE 1011.10
- IEC 60297-3-103



30407004

### ServicePLUS

- e.g. individual configuration and assembly
- e.g. modifications (special colours or sizes)
- e.g. custom solutions with modification to the plug-in units

[www.frontpanelexpress.eu](http://www.frontpanelexpress.eu)

**FRONT PANEL  
EXPRESS**



Downloads and further important information can be found  
on the Internet under [www.schrock.biz](http://www.schrock.biz)



## Plug-in units

Overview . . . . 7.16

### Handles for plug-in units



04603002

IEL/IET insertion/extraction handles also for CompactPCI-/VME64x applications, with keying/coding pin

Kit  
Page  
Individual  
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Page

7.18 7.19



04605005

Heavy-load XL insertion/extractor handles, extraction force up to 1500 N

– 7.30



04604059

Cantilever extraction handle, type 2

7.32 7.34



04692008

Cantilever extraction handle

7.40 7.42



04692011

Extraction handles for Multibus®II

– 7.93



04692008

Extraction handles in key form 1

– 7.48



04692010

Extraction handles in key form 2

– 7.51



04692003

Plug-in units with static handles

7.54 7.56



04692004

Plug-in units with mechanical protection (static handles)

7.62 –

### Plug-in units with injector and extraction handles

IEL/IET insertion/ extraction handles . . . . . 7.18

Heavy-load XL insertion/ extraction handles . . . . . 7.30

Cantilever extraction handles, type 2 . . . . . 7.32

Cantilever extraction handles 7.40

Extraction handles for Multibus®II . . 7.46

Extraction handles in key form 1 . . . . 7.48

Extraction handles in key form 2 . . . . 7.51

Plug-in units with fixed handles . . . 7.54

Plug-in unit with mechanical protection (static handles) . . 7.62

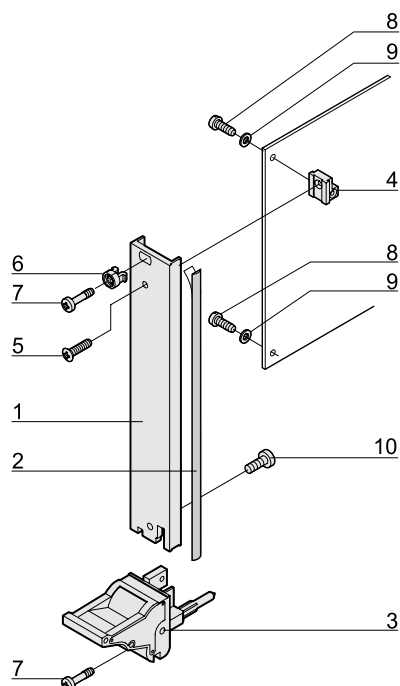
PCB covers . . . . . 7.64



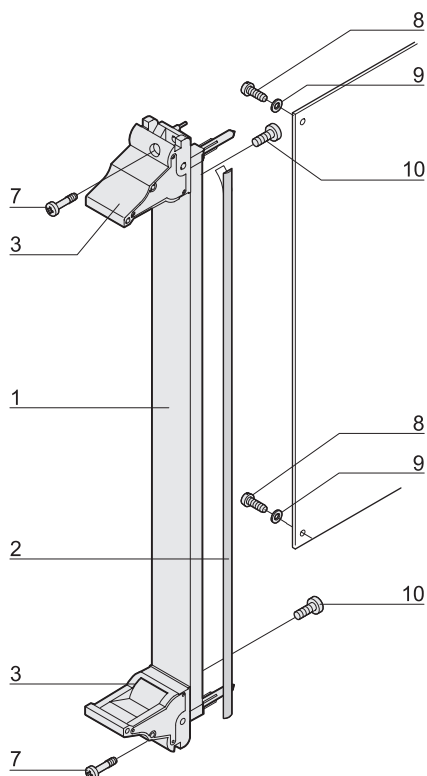
## Plug-in units with IEL/IET handles

### Kits

3 U



6 U



### Plug-in units with IEL insertion/extraction handle for CompactPCI/VME64x applications

- In accordance with IEEE 1101.10 and IEC 60297-3-102
- Codable in accordance with IEC 60297-3-103
- Front panel shielded, without offset
- Suitable for insertion and extraction forces up to 700 N (per pair)
- Designed for fitting of micro switches

### Delivery comprises (kit)

| Item | Qty  |      |      |      | Description                                                                                                                                            |
|------|------|------|------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | 3 U  |      | 6 U  |      |                                                                                                                                                        |
|      | <8HP | ≥8HP | <8HP | ≥8HP |                                                                                                                                                        |
| 1    | 1    | 1    | 1    | 1    | Front panel (U profile), Al, front anodised, rear conductive                                                                                           |
| 2    | 1    | 1    | 1    | 1    | EMC sealing (textile), core: foam, sleeve: textile cladding, CuNi coated                                                                               |
| 3    | 1    | 1    | 2    | 2    | Handle with integrated alignment pin for perforated strips and guide rails, lever: plastic, PC, black, RAL 9005 key: plastic, PC, light grey, RAL 7035 |
| 4    | 1    | 1    | -    | -    | Board support, die-cast zinc                                                                                                                           |
| 5    | 1    | 1    | -    | -    | Raised Pozidrive countersunk screw M2.5 × 8, St, nickel-plated                                                                                         |
| 6    | 1    | 3    | -    | 2    | Sleeve, PA, grey                                                                                                                                       |
| 7    | 2    | 4    | 2    | 4    | Pozidrive collar screw, M2.5 × 12.3, St, nickel-plated                                                                                                 |
| 8    | 2    | 2    | 2    | 2    | Panhead screw with Torx/slot, M2.5 × 6, St, zinc-plated, self-locking                                                                                  |
| 9    | 2    | 2    | 2    | 2    | Washer A2.7, St, nickel-plated                                                                                                                         |
| 10   | 1    | 1    | 2    | 2    | Panhead screw with Torx, M2.5 × 7, St, nickel-plated                                                                                                   |

04602073

### Order Information

| Width<br>HP                                                                 | Part no.<br>Rear I/O | Part no.<br>Front assembly |
|-----------------------------------------------------------------------------|----------------------|----------------------------|
| <b>3 U Height</b>                                                           |                      |                            |
| 4                                                                           | <b>20848-751</b>     | <b>20848-585</b>           |
| 6                                                                           | -                    | <b>20848-587</b>           |
| 8                                                                           | <b>20848-752</b>     | <b>20848-589</b>           |
| 10                                                                          | -                    | <b>20848-590</b>           |
| 12                                                                          | -                    | <b>20848-591</b>           |
| <b>6 U Height</b>                                                           |                      |                            |
| 4                                                                           | -                    | <b>20848-592</b>           |
| 6                                                                           | -                    | <b>20848-594</b>           |
| 8                                                                           | -                    | <b>20848-596</b>           |
| 10                                                                          | -                    | <b>20848-597</b>           |
| 12                                                                          | -                    | <b>20848-598</b>           |
| <b>Micro switch for handles, CompactPCI/VME64x application</b> PU 10 pieces |                      | <b>20817-606</b>           |

04602074

■ Dimension drawing of front profile, see page 7.25

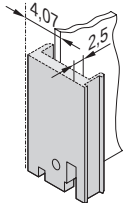
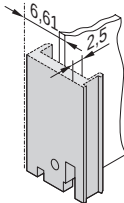
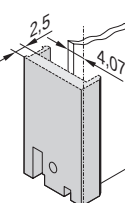
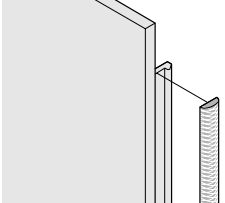
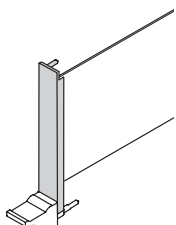
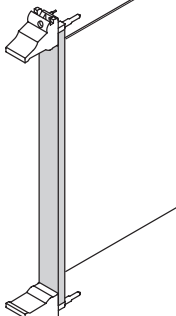
■ Description of micro switch see page 7.30

## Plug-in units with IEL/IET handles

### Individual components

### Front panels for IEL/IET insertion/extraction handles

#### Order Information

|                                                                                                 | Front panel, U profile, shieldable                                                                                                                                                                                |                                                                                               |                                                                                               | EMC textile gasket                                                                                                                                  |               | Front panel, unshielded front mounting, PCB fixing without offset        |           |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------|-----------|
|                                                                                                 | front mounting, PCB fixing without offset                                                                                                                                                                         | front mounting, PCB fixing with 0.1" offset                                                   | board fastening for rear I/O mounting, without offset                                         |                                                                                                                                                     |               |                                                                          |           |
|                                                                                                 | <br>04608060                                                                                                                     | <br>04608062 | <br>04608061 | <br>BGA45760                                                      |               |                                                                          |           |
|                                                                                                 | Al extrusion, front anodised, rear conductive; alignment pin pressed-in (3 U only) St, stainless; different finish structures may occur depending on the manufacturing process between 4 to 12 HP and 14 to 16 HP |                                                                                               |                                                                                               | Fixed laterally on the front panel, in the groove of the profile; textile gasket, core, foam; sleeve: textile cladding with CuNi coating, UL 94 V-0 |               | Front panel, Al, 2.5 mm, front anodised, rear iridescent green chromated |           |
| Width HP                                                                                        | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                                                                                                     | 1 piece (SPQ 5) <sup>1)</sup>                                                                 | 1 piece (SPQ 5) <sup>1)</sup>                                                                 | PU 10 pieces                                                                                                                                        | PU 100 pieces | 1 piece (SPQ 5) <sup>1)</sup>                                            |           |
| 3 U Height                                                                                      |                                                                                                                                                                                                                   |                                                                                               |                                                                                               |                                                                                                                                                     |               |                                                                          |           |
| <br>04608067 | 4                                                                                                                                                                                                                 | 30848-312                                                                                     | 30848-426                                                                                     | 30848-867                                                                                                                                           | 21101-853     | 21101-854                                                                | 30848-327 |
|                                                                                                 | 5                                                                                                                                                                                                                 | 30848-300                                                                                     | 30848-427                                                                                     | —                                                                                                                                                   |               |                                                                          | 30848-328 |
|                                                                                                 | 6                                                                                                                                                                                                                 | 30848-313                                                                                     | 30848-428                                                                                     | —                                                                                                                                                   |               |                                                                          | 30848-329 |
|                                                                                                 | 7                                                                                                                                                                                                                 | 30848-301                                                                                     | 30848-429                                                                                     | —                                                                                                                                                   |               |                                                                          | 30848-330 |
|                                                                                                 | 8                                                                                                                                                                                                                 | 30848-314                                                                                     | 30848-430                                                                                     | 30848-869                                                                                                                                           |               |                                                                          | 30848-331 |
|                                                                                                 | 9                                                                                                                                                                                                                 | 20848-227                                                                                     | —                                                                                             | —                                                                                                                                                   |               |                                                                          | —         |
|                                                                                                 | 10                                                                                                                                                                                                                | 30848-315                                                                                     | 30848-431                                                                                     | —                                                                                                                                                   |               |                                                                          | 30848-333 |
|                                                                                                 | 11                                                                                                                                                                                                                | 20848-228                                                                                     | —                                                                                             | —                                                                                                                                                   |               |                                                                          | —         |
|                                                                                                 | 12                                                                                                                                                                                                                | 30848-316                                                                                     | 30848-432                                                                                     | 30848-985                                                                                                                                           |               |                                                                          | 30848-335 |
|                                                                                                 | 14                                                                                                                                                                                                                | 20848-230                                                                                     | —                                                                                             | —                                                                                                                                                   |               |                                                                          | —         |
| 16                                                                                              | 20848-232                                                                                                                                                                                                         | —                                                                                             | —                                                                                             | —                                                                                                                                                   |               |                                                                          |           |
| 6 U Height                                                                                      |                                                                                                                                                                                                                   |                                                                                               |                                                                                               |                                                                                                                                                     |               |                                                                          |           |
| <br>04608066 | 4                                                                                                                                                                                                                 | 30848-317                                                                                     | 30848-317                                                                                     | 30848-317                                                                                                                                           | 21101-855     | 21101-856                                                                | 30848-336 |
|                                                                                                 | 5                                                                                                                                                                                                                 | 30848-304                                                                                     | 30848-304                                                                                     | 30848-304                                                                                                                                           |               |                                                                          | 30848-337 |
|                                                                                                 | 6                                                                                                                                                                                                                 | 30848-318                                                                                     | 30848-318                                                                                     | 30848-318                                                                                                                                           |               |                                                                          | 30848-338 |
|                                                                                                 | 7                                                                                                                                                                                                                 | 30848-305                                                                                     | 30848-305                                                                                     | 30848-305                                                                                                                                           |               |                                                                          | 30848-339 |
|                                                                                                 | 8                                                                                                                                                                                                                 | 30848-319                                                                                     | 30848-319                                                                                     | 30848-319                                                                                                                                           |               |                                                                          | 30848-340 |
|                                                                                                 | 9                                                                                                                                                                                                                 | 20848-243                                                                                     | 20848-243                                                                                     | 20848-243                                                                                                                                           |               |                                                                          | —         |
|                                                                                                 | 10                                                                                                                                                                                                                | 30848-320                                                                                     | 30848-320                                                                                     | 30848-320                                                                                                                                           |               |                                                                          | 30848-342 |
|                                                                                                 | 11                                                                                                                                                                                                                | 20848-244                                                                                     | 20848-244                                                                                     | 20848-244                                                                                                                                           |               |                                                                          | —         |
|                                                                                                 | 12                                                                                                                                                                                                                | 30848-321                                                                                     | 30848-321                                                                                     | 30848-321                                                                                                                                           |               |                                                                          | 30848-344 |
|                                                                                                 | 14                                                                                                                                                                                                                | 20848-246                                                                                     | 20848-246                                                                                     | 20848-246                                                                                                                                           |               |                                                                          | —         |
| 16                                                                                              | 20848-248                                                                                                                                                                                                         | 20848-248                                                                                     | 20848-248                                                                                     | —                                                                                                                                                   |               |                                                                          |           |
| Dimension drawings see page                                                                     | 7.25                                                                                                                                                                                                              | 7.25                                                                                          | 7.26                                                                                          |                                                                                                                                                     |               |                                                                          | 7.27      |

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

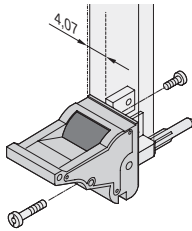
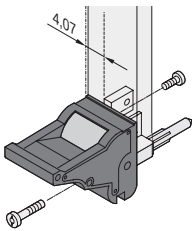
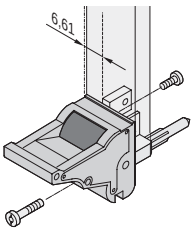
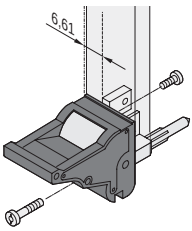
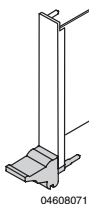
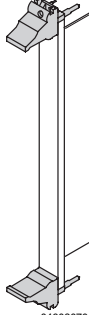
Part no. includes one packing unit (PU); delivery is exclusively made in PU

## Plug-in units with IEL/IET handles

### Individual components

### IEL insertion/extraction handles

#### Order Information

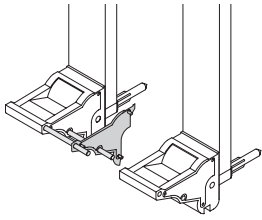
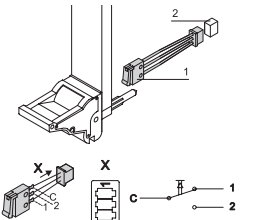
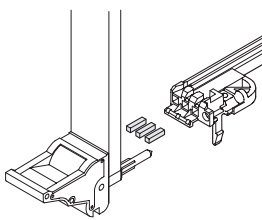
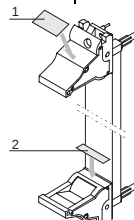
|                                                                                                              | IEL insertion/extraction handle, PCB fixing without offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  | IEL insertion/extraction handle, PCB fixing with 0.1" offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|                                                                                                              | lever: light grey, RAL 7035<br>button: black, RAL 9005                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  | lever: black, RAL 9005<br>button: light grey, RAL 7035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  | lever: light grey, RAL 7035<br>button: black, RAL 9005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  | lever: black, RAL 9005<br>button: light grey, RAL 7035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |
| Assembly                                                                                                     |  <p>To IEEE 1101.10 and IEC 60297-3-102, with locking, designed for insertion and withdrawal forces up to 700 N (per pair), designed for fitting of micro switches, die-cast zinc, nickel-plated, with integrated alignment pin for perforated strip, codable to IEEE 1101.10 and IEC 60297-3-103, lever/button UL 94 V-0, collar screw Pozidrive/slot, M2.5 x 12.3, St, nickel-plated, panhead screw with Torx, M2.5 x 7, St, nickel-plated</p> |                  |  <p>To IEEE 1101.10 and IEC 60297-3-102, with locking, designed for insertion and withdrawal forces up to 700 N (per pair), designed for fitting of micro switches, blocks die-cast zinc, nickel-plated, with integrated alignment pin for perforated strip, codable to IEEE 1101.10 and IEC 60297-3-103, lever/button UL 94 V-0, collar screw Pozidrive/slot, M2.5 x 12.3, St, nickel-plated, panhead screw with Torx, M2.5 x 7, St, nickel-plated</p> |                  |  <p>To IEEE 1101.10 and IEC 60297-3-102, with locking, designed for insertion and withdrawal forces up to 700 N (per pair), designed for fitting of micro switches, blocks die-cast zinc, nickel-plated, with integrated alignment pin for perforated strip, codable to IEEE 1101.10 and IEC 60297-3-103, lever/button UL 94 V-0, collar screw Pozidrive/slot, M2.5 x 12.3, St, nickel-plated, panhead screw with Torx, M2.5 x 7, St, nickel-plated</p> |                  |  <p>To IEEE 1101.10 and IEC 60297-3-102, with locking, designed for insertion and withdrawal forces up to 700 N (per pair), designed for fitting of micro switches, blocks die-cast zinc, nickel-plated, with integrated alignment pin for perforated strip, codable to IEEE 1101.10 and IEC 60297-3-103, lever/button UL 94 V-0, collar screw Pozidrive/slot, M2.5 x 12.3, St, nickel-plated, panhead screw with Torx, M2.5 x 7, St, nickel-plated</p> |                  |
|                                                                                                              | PU 10 pieces                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PU 100 pieces    | PU 10 pieces                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PU 100 pieces    | PU 10 pieces                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PU 100 pieces    | PU 10 pieces                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PU 100 pieces    |
|  <p>3 U Height<br/>top</p> | Front side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | —                | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | —                | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | —                | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | —                |
|                                                                                                              | Rear I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | —                | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | —                | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | —                | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | —                |
|                                                                                                              | bottom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |
|                                                                                                              | Front side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>20817-620</b> | <b>20817-621</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>20817-612</b> | <b>20817-613</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>20817-690</b> | <b>20817-691</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>20817-682</b> |
|                                                                                                              | Rear I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>20817-622</b> | <b>20817-623</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>20817-614</b> | <b>20817-615</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | —                | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | —                |
|                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |
|  <p>6 U Height<br/>top</p> | Front side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>20817-622</b> | <b>20817-623</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>20817-614</b> | <b>20817-615</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>20817-692</b> | <b>20817-693</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>20817-684</b> |
|                                                                                                              | Rear I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>20817-620</b> | <b>20817-621</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>20817-612</b> | <b>20817-613</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | —                | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | —                |
|                                                                                                              | bottom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |
|                                                                                                              | Front side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>20817-620</b> | <b>20817-621</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>20817-612</b> | <b>20817-613</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>20817-690</b> | <b>20817-691</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>20817-682</b> |
|                                                                                                              | Rear I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>20817-622</b> | <b>20817-623</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>20817-614</b> | <b>20817-615</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | —                | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | —                |
|                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |
| Dimension drawings<br>see page                                                                               | 7.28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  | 7.28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |

## Plug-in units with IEL/IET handles

### Individual components

### IEL/IET insertion/extraction handles, accessories

#### Order Information

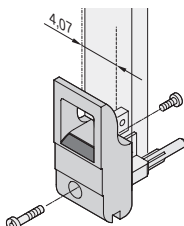
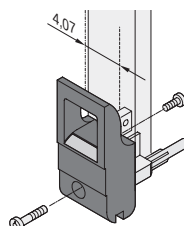
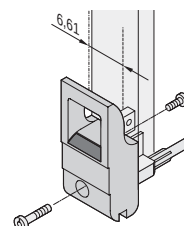
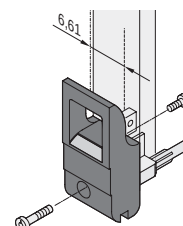
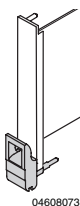
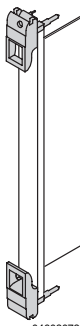
| Side-by-side mounting kit<br>for 2 handles                                                                                                                                                                                                                                                                             | Micro switch<br>with cable and plug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Keying/coding<br>in accordance with<br>IEC 60297-3-103                                                                                                                                                                                                                                   | Label strips                                                                                                                                                                                                                                                                      |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                          | 19 x 9.5 mm                                                                                                                                                                                                                                                                       | 19 x 4.8 mm      |
|  <p>bga46318</p> <p>Side-by-side mounting kit, plastic, PC, UL 94 V-0, RAL 7035, pin: steel, stainless; allows two handles to be positioned side by side as one unit, can be done with 4 HP front panels only</p> <p>PU 10 pieces</p> |  <p>bga46314 bga46315</p> <p>Molex connector housing 51021-0300, Molex crimp contact 50058-8000 and fixing clip (item 3), plastic, PC, UL 94 V-0, max. switched current 50 mA, operating temperature -25 °C to +70 °C, mech. lifespan <math>\geq 20.000</math> switching cycles, electr. lifespan <math>\geq 20.000</math> switching cycles, suitable mating connectors (item 2) not included in delivery, e.g. Molex 53261-0319, 53048-0310, 53047-0310, 53398-0319, 51047-0300</p> <p>PU 10 pieces</p> |  <p>bga46316</p> <p>The keying/coding pegs (3 each) are inserted into the coding block or the handle; coding peg, PC, UL 94 V-0, RAL 7035 guide rails for coding see page 6.37</p> <p>PU 100 pieces</p> |  <p>04808074</p> <p>Polyester, self-adhesive, white, 1 sheet 210 pieces (Item 1)</p> <p>Polyester, self-adhesive, white, 1 sheet 320 pieces (Item 2)</p> <p>PU 210 pieces    PU 320 pieces</p> |                  |
| <b>3 U Height</b>                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                   |                  |
| top                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                   |                  |
| —                                                                                                                                                                                                                                                                                                                      | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | —                                                                                                                                                                                                                                                                                        | —                                                                                                                                                                                                                                                                                 | —                |
| bottom                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                   |                  |
| <b>20817-672</b>                                                                                                                                                                                                                                                                                                       | <b>20817-606</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>20817-501</b>                                                                                                                                                                                                                                                                         | <b>60817-340</b>                                                                                                                                                                                                                                                                  | <b>60817-341</b> |
| <b>6 U Height</b>                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                   |                  |
| top                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                   |                  |
| <b>20817-672</b>                                                                                                                                                                                                                                                                                                       | <b>20817-606</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>20817-501</b>                                                                                                                                                                                                                                                                         | <b>60817-340</b>                                                                                                                                                                                                                                                                  | <b>60817-341</b> |
| bottom                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                   |                  |
| <b>20817-672</b>                                                                                                                                                                                                                                                                                                       | <b>20817-606</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>20817-501</b>                                                                                                                                                                                                                                                                         | <b>60817-340</b>                                                                                                                                                                                                                                                                  | <b>60817-341</b> |

## Plug-in units with IEL/IET handles

### Individual components

### IEL insertion/extraction handles

#### Order Information

| IEL insertion/extraction handle, PCB fixing without offset                                                                                                                                                                                                                                                                                                                                                                                                 |                   |               |              |               | IEL insertion/extraction handle, PCB fixing with 0.1 offset                                     |               |              |               |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------|--------------|---------------|-------------------------------------------------------------------------------------------------|---------------|--------------|---------------|--|
| lever: light grey, RAL 7035<br>button: black, RAL 9005                                                                                                                                                                                                                                                                                                                                                                                                     |                   |               |              |               | lever: black, RAL 9005<br>button: light grey, RAL 7035                                          |               |              |               |  |
| <br>04608054                                                                                                                                                                                                                                                                                                                                                              |                   |               |              |               | <br>04608056   |               |              |               |  |
| To IEEE 1101.10 and IEC 60297-3-102, with locking,<br>designed for insertion and withdrawal forces up to 700 N (per pair),<br>designed for fitting of micro switches, die-cast zinc, nickel-plated,<br>with integrated alignment pin for perforated strip,<br>codable to IEEE 1101.10 and IEC 60297-3-103, lever/button UL 94 V-0,<br>collar screw Pozidrive/slot, M2.5 x 12.3, St, nickel-plated,<br>panhead screw with Torx, M2.5 x 7, St, nickel-plated |                   |               |              |               | <br>04608055  |               |              |               |  |
| To IEEE 1101.10 and IEC 60297-3-102, with locking,<br>designed for insertion and withdrawal forces up to 700 N (per pair),<br>designed for fitting of micro switches, die-cast zinc, nickel-plated,<br>with integrated alignment pin for perforated strip,<br>codable to IEEE 1101.10 and IEC 60297-3-103, lever/button UL 94 V-0,<br>collar screw Pozidrive/slot, M2.5 x 12.3, St, nickel-plated,<br>panhead screw with Torx, M2.5 x 7, St, nickel-plated |                   |               |              |               | <br>04808074 |               |              |               |  |
| Assembly                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PU 10 pieces      | PU 100 pieces | PU 10 pieces | PU 100 pieces | PU 10 pieces                                                                                    | PU 100 pieces | PU 10 pieces | PU 100 pieces |  |
| <br>04608073                                                                                                                                                                                                                                                                                                                                                             | 3 U Height<br>top |               |              |               |                                                                                                 |               |              |               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Front side        | —             | —            | —             | —                                                                                               | —             | —            | —             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Rear I/O          | —             | —            | —             | —                                                                                               | —             | —            | —             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                            | bottom            |               |              |               |                                                                                                 |               |              |               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Front side        | 20817-660     | 20817-661    | 20817-652     | 20817-653                                                                                       | 20817-714     | 20817-715    | 20817-706     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Rear I/O          | 20817-662     | 20817-663    | 20817-654     | 20817-655                                                                                       | —             | —            | —             |  |
| <br>04608072                                                                                                                                                                                                                                                                                                                                                             | 6 U Height<br>top |               |              |               |                                                                                                 |               |              |               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Front side        | 20817-662     | 20817-663    | 20817-654     | 20817-655                                                                                       | 20817-716     | 20817-717    | 20817-708     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Rear I/O          | 20817-660     | 20817-661    | 20817-652     | 20817-653                                                                                       | —             | —            | —             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                            | bottom            |               |              |               |                                                                                                 |               |              |               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Front side        | 20817-660     | 20817-661    | 20817-652     | 20817-653                                                                                       | 20817-714     | 20817-715    | 20817-706     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Rear I/O          | 20817-662     | 20817-663    | 20817-654     | 20817-655                                                                                       | —             | —            | —             |  |
| Dimension drawings<br>see page                                                                                                                                                                                                                                                                                                                                                                                                                             | 7.29              |               |              |               | 7.29                                                                                            |               |              |               |  |



## Plug-in units with IEL/IET handles

### Individual components

### IEL/IET insertion/extraction handles, accessories

#### Order Information

| Micro switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Keying/coding                                                                                                                                                                                                                                                   | Label strips                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>with cable and plug</b></p> <p>bga46314 bga46315</p> <p>Molex connector housing 51021-0300,<br/>Molex crimp contact 50058-8000 and fixing clip (item 3), plastic, PC, UL 94 V-0, max. switched current 50 mA; operating temperature -25 °C to +70 °C, mech. lifespan <math>\geq 20.000</math> switching cycles electr. lifespan <math>\geq 20.000</math> switching cycles, suitable mating connectors (item 2) not included in delivery, e.g. Molex 53261-0319, 53048-0310, 53047-0310, 53398-0319, 51047-0300</p> <p><b>PU 10 pieces</b></p> | <p><b>in accordance with IEC 60297-3-103</b></p> <p>bga46316</p> <p>The keying/coding pegs (3 each) are inserted into the coding block or the handle; coding peg, PC, UL 94 V-0, RAL 7035 guide rails for coding, see page 6.37</p> <p><b>PU 100 pieces</b></p> | <p><b>19 x 9.5 mm</b></p> <p>04808074</p> <p>Polyester, self-adhesive, white, 1 sheet 210 pcs (Item 1)</p> <p><b>PU 210 pieces</b></p> |
| <b>3 U Height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                 |                                                                                                                                        |
| top                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                 |                                                                                                                                        |
| —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | —                                                                                                                                                                                                                                                               | —                                                                                                                                      |
| bottom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                 |                                                                                                                                        |
| <b>20817-606</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>20817-501</b>                                                                                                                                                                                                                                                | <b>60817-340</b>                                                                                                                       |
| <b>6 U Height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                 |                                                                                                                                        |
| top                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                 |                                                                                                                                        |
| <b>20817-606</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>20817-501</b>                                                                                                                                                                                                                                                | <b>60817-340</b>                                                                                                                       |
| bottom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                 |                                                                                                                                        |
| <b>20817-606</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>20817-501</b>                                                                                                                                                                                                                                                | <b>60817-340</b>                                                                                                                       |

## Plug-in units with IEL/IET handles

### Individual components

### IEL/IET insertion/extraction handles, assembly kits

#### Order Information

3 U

6 U

top

bottom

04609050 04609051

| Assembly kits                                                                        | Item |                                                                                                 | Required Qty |      |      |      | Qty/PU                            | Part no.         |
|--------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------|--------------|------|------|------|-----------------------------------|------------------|
|                                                                                      |      |                                                                                                 | 3 U          |      | 6 U  |      |                                   |                  |
|                                                                                      |      |                                                                                                 | <8HP         | ≥8HP | <8HP | ≥8HP |                                   |                  |
| Printed board bracket<br>Zn die-cast                                                 | 1    | <br>04608074  | 1            | 1    | —    | —    | 1 piece<br>(SPQ 10) <sup>1)</sup> | <b>60807-181</b> |
| Pozidrive flathead screw<br>M2.5 × 6, St, nickel-plated                              | 3    | <br>06702057 | 2            | 2    | 2    | 2    | 100                               | <b>21101-219</b> |
| Slotted panhead screw with Torx<br>M2.5 × 6, St, zinc-plated<br>Self-securing thread | 3a   | <br>aza45940 | 2            | 2    | 2    | 2    | 100                               | <b>24560-159</b> |
| Washer<br>2.7, St, nickel-plated                                                     | 4    | <br>AZA46586 | 2            | 2    | 2    | 2    | 100                               | <b>21100-721</b> |
| Raised Pozidrive countersunk screw<br>M2.5 × 8, St, nickel-plated                    | 5    | <br>06702056 | 1            | 1    | —    | —    | 100                               | <b>21100-429</b> |
| Raised countersunk head screw with Torx<br>M2.5 × 8, St, nickel-plated               | 5a   | <br>06708050 | 1            | 1    | —    | —    | 100                               | <b>24560-164</b> |
| Collar screw with Pozidrive/slot<br>M2.5 × 12.3, St, nickel-plated                   | 6    | <br>AZA46586 | 1            | 3    | —    | 2    | 100                               | <b>21101-101</b> |
| Plastic sleeve, for form hole 5.9 x 3.3,<br>PA, UL 90 V-2, grey                      | 7    | <br>aza45933 | 1            | 3    | —    | 2    | 100                               | <b>21100-464</b> |
| Metal sleeve, for form hole 5.9 x 3.3, press-in<br>St, stainless steel               | 7a   | <br>AZA43239 | 1            | 3    | —    | 2    | 100                               | <b>21100-662</b> |
| Pozidrive panhead screw<br>for 0.1" offset<br>M2.5 × 10, nickel-plated steel         | 8    | <br>06702057 | 2            | 2    | 2    | 2    | 100                               | <b>21101-220</b> |

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

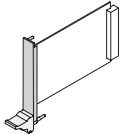
# Plug-in units with IEL/IET handles

## Dimension drawings

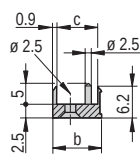
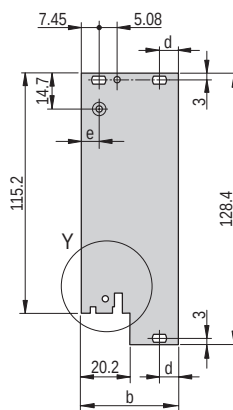
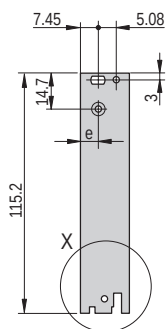
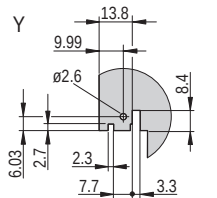
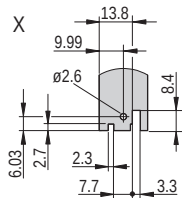
## Front panels, U profiles, for IEL/IET insertion/extraction handles, shieldable

PCB fixing without offset/with 0.1" offset

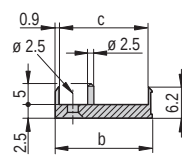
3 U



04608067



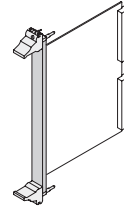
4 HP



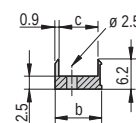
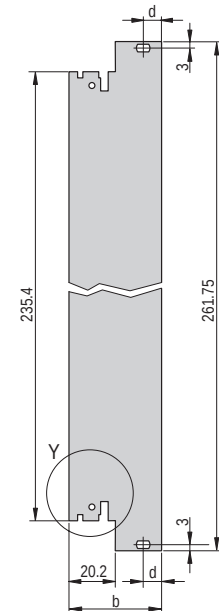
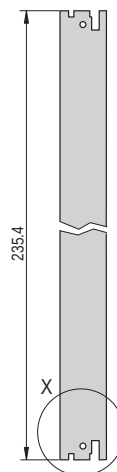
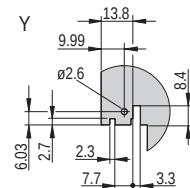
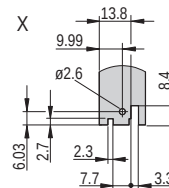
≥ 5 HP

04608064

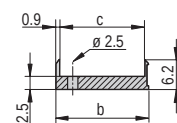
6 U



04608066



4 HP



≥ 5 HP

04608065

Dimensions table

| Width<br>HP | b<br>mm | c<br>mm | d<br>mm | without offset<br>e<br>mm | with 0.1" offset<br>e<br>mm |
|-------------|---------|---------|---------|---------------------------|-----------------------------|
| 4           | 19.98   | 17.45   | —       | 7.45                      | 9.99                        |
| 5           | 25.06   | 22.53   | —       | 7.45                      | 9.99                        |
| 6           | 30.14   | 27.61   | —       | 7.45                      | 9.99                        |
| 7           | 35.22   | 32.69   | —       | 7.45                      | 9.99                        |
| 8           | 40.30   | 37.77   | 7.45    | 7.45                      | 9.99                        |
| 9           | 45.38   | 42.85   | 7.45    | 7.45                      | 9.99                        |
| 10          | 50.46   | 47.93   | 7.45    | 7.45                      | 9.99                        |
| 11          | 55.54   | 53.01   | 7.45    | 7.45                      | 9.99                        |
| 12          | 60.62   | 58.09   | 7.45    | 7.45                      | 9.99                        |
| 14          | 70.78   | 68.25   | 7.45    | 7.45                      | 9.99                        |
| 16          | 80.94   | 78.41   | 7.45    | 7.45                      | 9.99                        |

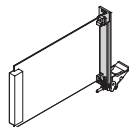
## Plug-in units with IEL/IET handles

### Dimension drawings

Front panels, U profiles, for IEL/IET insertion/extraction handles, rear I/O, shieldable

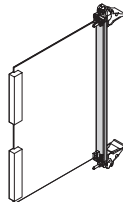
PCB fixing without offset

3 U

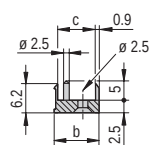
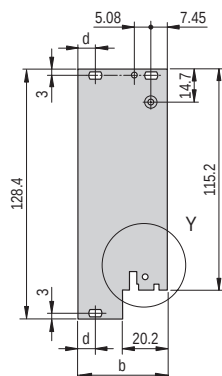
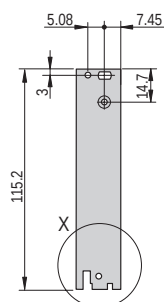
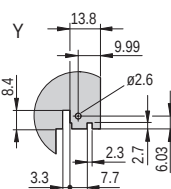
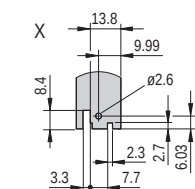


04608068

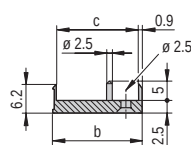
6 U



04608076

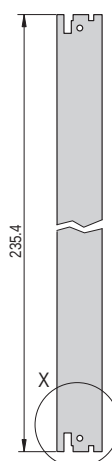
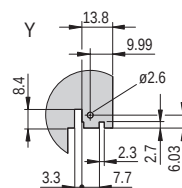
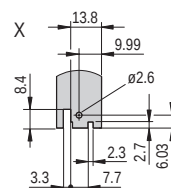


4 HP

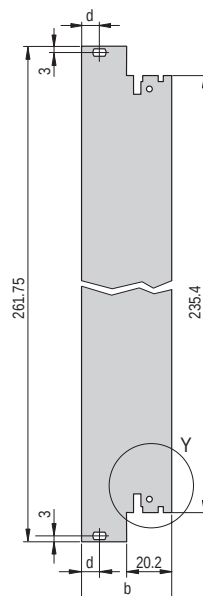


≥5 HP

04608069



4 HP



≥5 HP

04608075

### Dimensions table

| Width | B     | c     | d    |
|-------|-------|-------|------|
| HP    | mm    | mm    | mm   |
| 4     | 19.98 | 17.45 | —    |
| 5     | 25.06 | 22.53 | —    |
| 6     | 30.14 | 27.61 | —    |
| 7     | 35.22 | 32.69 | —    |
| 8     | 40.30 | 37.77 | 7.45 |
| 9     | 45.38 | 42.85 | 7.45 |
| 10    | 50.46 | 47.93 | 7.45 |
| 11    | 55.54 | 53.01 | 7.45 |
| 12    | 60.62 | 58.09 | 7.45 |
| 14    | 70.78 | 68.25 | 7.45 |
| 16    | 80.94 | 78.41 | 7.45 |

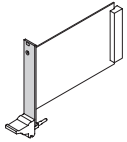
# Plug-in units with IEL/IET handles

## Dimension drawings

## Front panels, U profiles, for IEL/IET insertion/extraction handles, unshielded

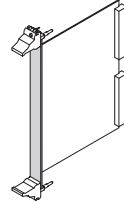
PCB fixing without offset

3 U

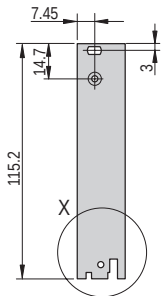
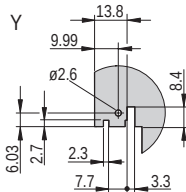
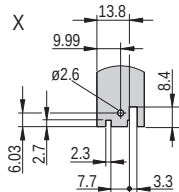


04608080

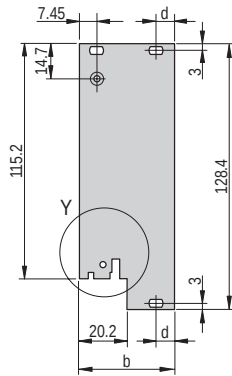
6 U



04608079

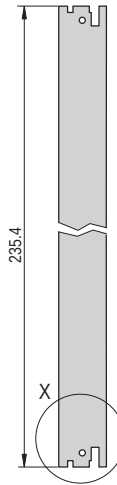
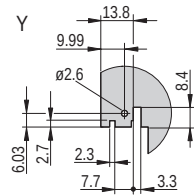
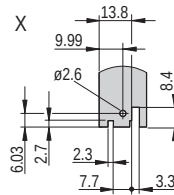


4 HP

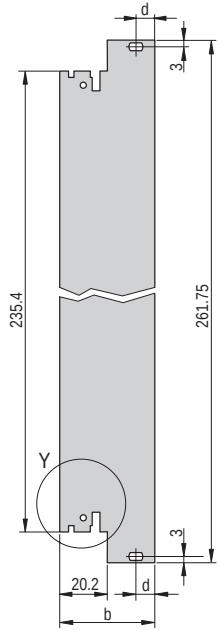


≥ 5 HP

04608077



4 HP



≥ 5 HP

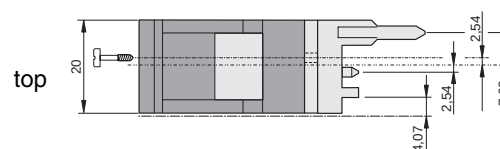
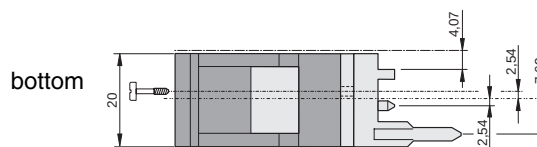
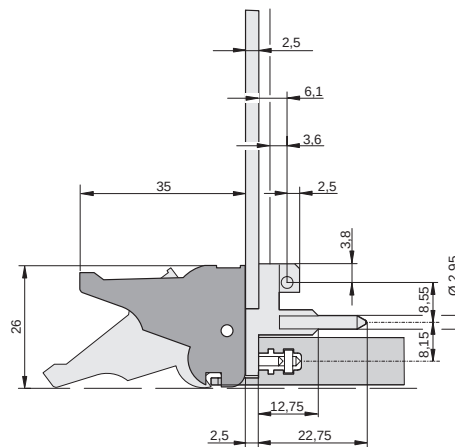
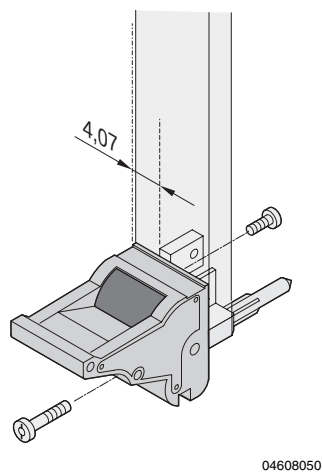
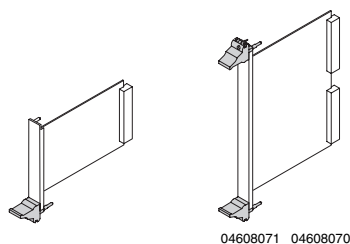
04608078

Dimensions table

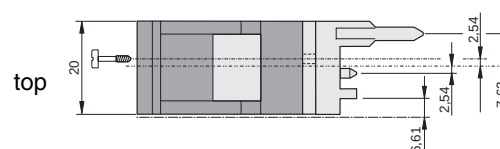
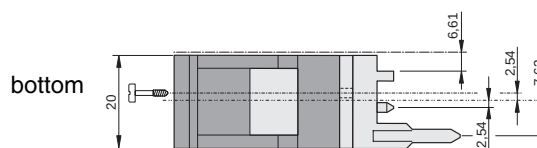
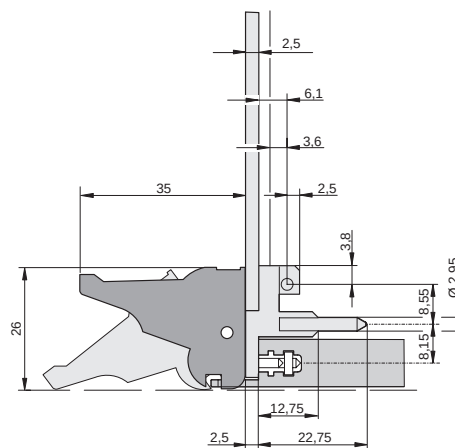
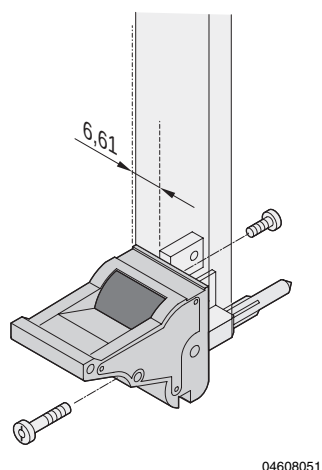
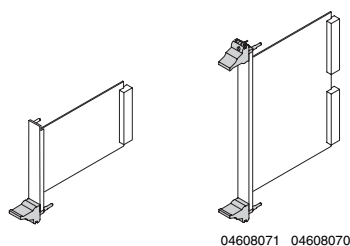
| Width<br>HP | b<br>mm | d<br>mm | e<br>mm |
|-------------|---------|---------|---------|
| 4           | 19.98   | —       | 7.45    |
| 5           | 25.06   | —       | 7.45    |
| 6           | 30.14   | —       | 7.45    |
| 7           | 35.22   | —       | 7.45    |
| 8           | 40.30   | 7.45    | 7.45    |
| 9           | 45.38   | 7.45    | 7.45    |
| 10          | 50.46   | 7.45    | 7.45    |
| 11          | 55.54   | 7.45    | 7.45    |
| 12          | 60.62   | 7.45    | 7.45    |
| 14          | 70.78   | 7.45    | 7.45    |
| 16          | 80.94   | 7.45    | 7.45    |

## Plug-in units with IEL/IET handles

### Dimension drawings IEL insertion/extraction handles



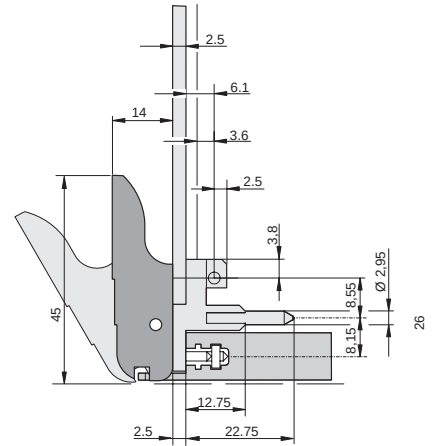
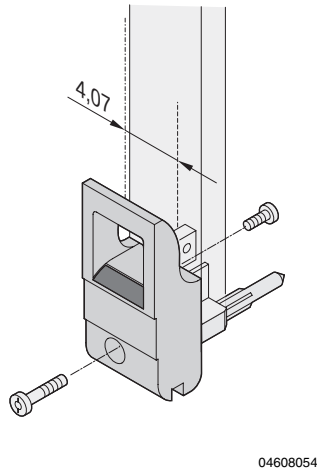
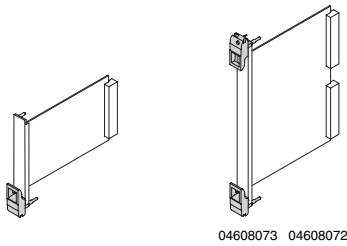
### Dimension drawings IEL insertion/extraction handles, 0.1" offset



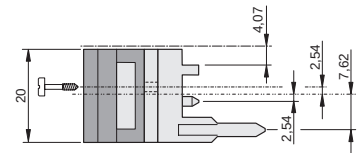


## Plug-in units with IEL/IET handles

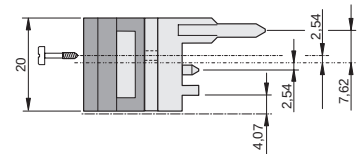
### Dimension drawings IET insertion/extraction handles



bottom



top

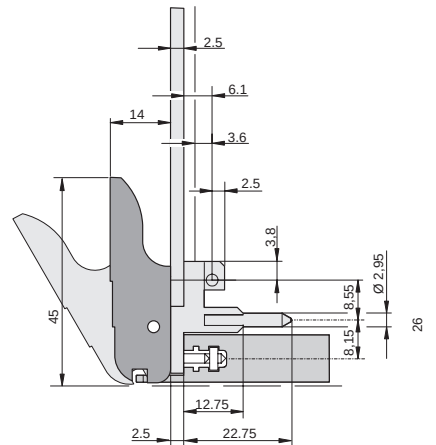
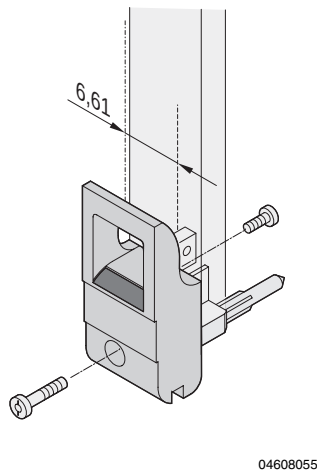
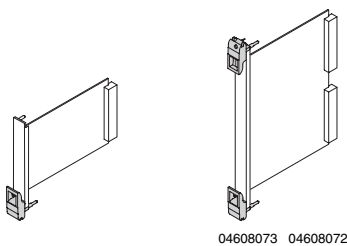


04603060

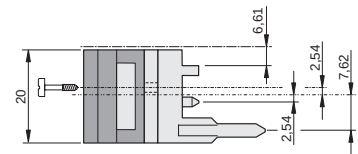
04607056

04607057

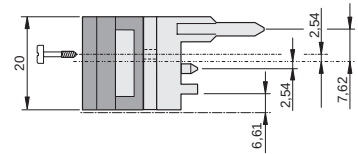
### Dimension drawings IET insertion/extraction handles, 0.1" offset



bottom



top



04603060

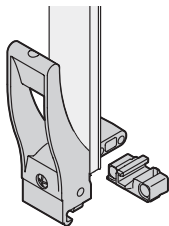
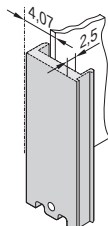
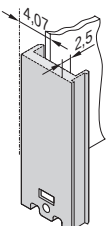
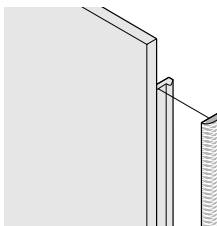
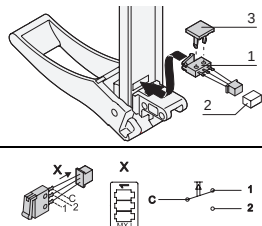
04603062

04607058

## Plug-in units with heavy-load XL handles

### Individual components

### Heavy duty XL-insertion/extraction handles, front panels, micro switch

|                                | Heavy duty XL insertion/<br>extraction handle                                                                                                                                                                                                                                                             | U front profile for<br>XL extraction handle                                                                                                                                                                 |                                                                                                                                                                                                             | EMC gasket (textile)                                                                                                                                                                                                                                                        |               | Micro switch<br>item 1<br>with cable and plug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                |                                                                                                                                                                                                                                                                                                           | without<br>cut-out for<br>micro switch                                                                                                                                                                      | with<br>cut-out for<br>micro switch                                                                                                                                                                         |                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                | <br><div>04608081</div> <p>Kit, incl. die-cast bearing and assembly kit; insertion and withdrawal force up to 1500 Nm per pair, robust PCB mounting with double screw fixing, designed for fitting of micro switches</p> | <br><div>04608082</div> <p>Al, front anodised, bracket and rear conductive; for sleeve and collar screw see page 7.100</p> | <br><div>04608083</div> <p>Al, front anodised, bracket and rear conductive; for sleeve and collar screw see page 7.100</p> | <br><div>BGA45760</div> <p>Always fixed laterally on the front panel, in the groove of the profile, textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0</p> |               | <br><div>04608084 bga46315</div> <p>Molex connector housing 51021-0300, Molex crimp contact 50058-8000 and fixing clip (item 3), plastic, PC, UL 94 V-0, max. switched current 50 mA, operating temperature -25 °C to +70 °C, mech. lifespan <math>\geq 20.000</math> switching cycles, electr. lifespan <math>\geq 20.000</math> switching cycles, suitable mating connectors (item 2) not included in delivery, e.g. Molex 53261-0319, 53048-0310, 53047-0310, 53398-0319, 51047-0300</p> |
| Width<br>HP                    | PU 10 pieces                                                                                                                                                                                                                                                                                              | 1 piece<br>(SPQ 5) <sup>1)</sup>                                                                                                                                                                            | 1 piece<br>(SPQ 5) <sup>1)</sup>                                                                                                                                                                            | PU 10 pieces                                                                                                                                                                                                                                                                | PU 100 pieces | PU 10 pieces                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 6 U Height                     |                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                             |                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 4                              | 20817-874                                                                                                                                                                                                                                                                                                 | 30849-153                                                                                                                                                                                                   | 30849-154                                                                                                                                                                                                   | 21101-855                                                                                                                                                                                                                                                                   | 21101-856     | 20817-877                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 8                              |                                                                                                                                                                                                                                                                                                           | 30849-155                                                                                                                                                                                                   | 30849-156                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 12                             |                                                                                                                                                                                                                                                                                                           | 30849-157                                                                                                                                                                                                   | 30849-158                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Dimension drawings<br>see page | 7.31                                                                                                                                                                                                                                                                                                      | 7.31                                                                                                                                                                                                        | 7.31                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

Part no. includes one packing unit (PU); delivery is exclusively made in PU

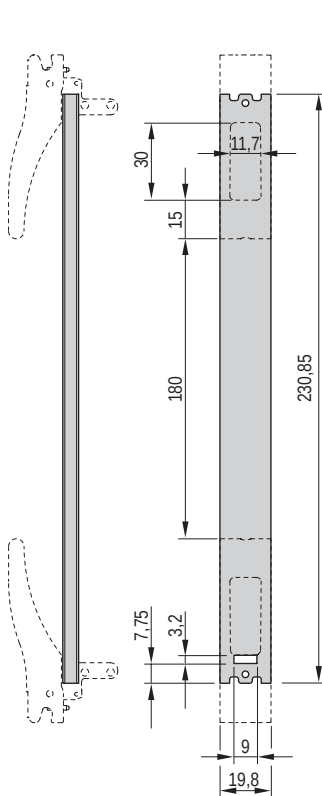
#### Note

■ Please order front panel separately

## Plug-in units with heavy-load XL handles

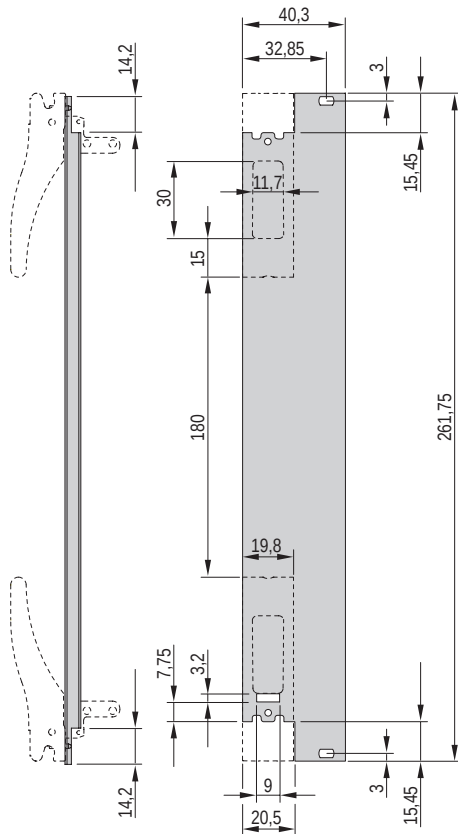
### Dimension drawings U front profile shieldable for XL extraction handles

6 U / 4 HP



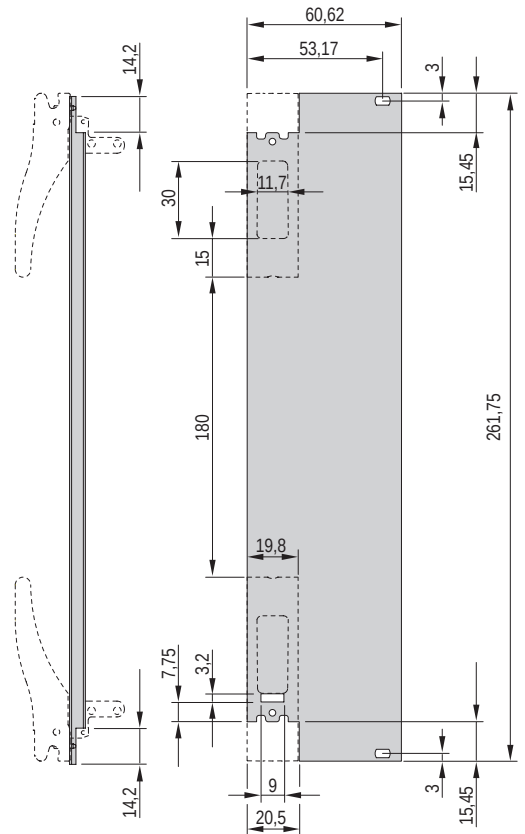
04605053

6 U / 8 HP



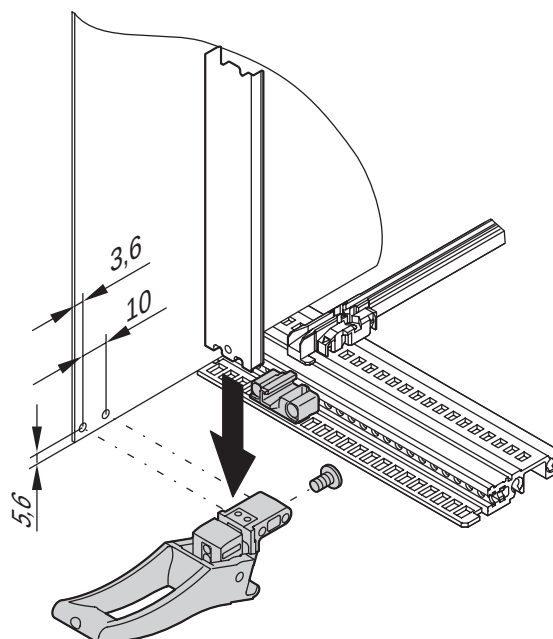
04605054

6 U / 12 HP



04605055

### Dimension drawings Heavy-load XL insertion/extraction handle



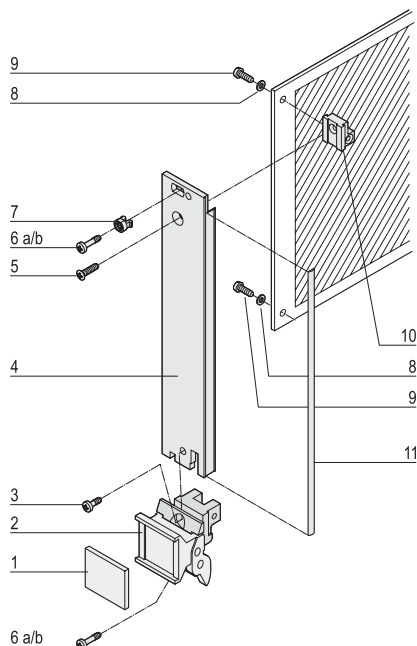
04608113

## Plug-in units with cantilever extraction handles, type 2

### Kits

### Plug-in units with cantilever extraction handle type 2

3 U



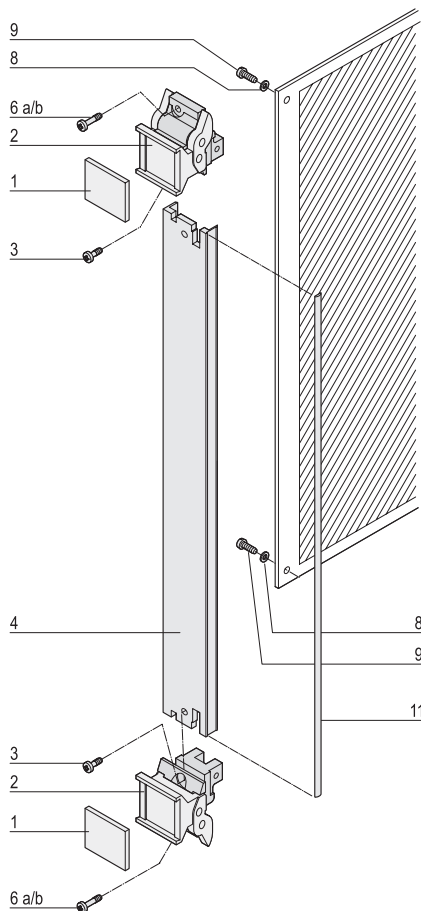
■ Shielded

#### Delivery comprises (kit)

| Item | Qty  |      |      |      | Description                                                                                                                                                     |
|------|------|------|------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | 3 U  |      | 6 U  |      |                                                                                                                                                                 |
|      | <8HP | ≥8HP | <8HP | ≥8HP |                                                                                                                                                                 |
| 1    | 1    | 1    | 2    | 2    | Identification plate, Al, 1.5 mm, anodised, cut edges plain                                                                                                     |
| 2    | 1    | 1    | 2    | 2    | Extraction handle, cantilever, type 2, lever: PPE, light grey, RAL 7035, block die-cast zinc, nickel-plated, with integrated alignment pin for perforated strip |
| 3    | 1    | 1    | 2    | 2    | Pozidrive flathead screw, St, M2.5 x 6, nickel-plated                                                                                                           |
| 4    | 1    | 1    | 1    | 1    | Front panel, U profile, Al, front anodised, rear conductive                                                                                                     |
| 5    | 1    | 1    | –    | –    | Raised Pozidrive countersunk screw M2.5 × 8, St, nickel-plated                                                                                                  |
| 6a   | 2    | 4    | 2    | 4    | Pozidrive collar screw, M2.5 × 12.3, St, nickel-plated,                                                                                                         |
| 6b   | 2    | 4    | 2    | 4    | collar screw, Pozidrive/slot, M2.5 × 11, St, nickel-plated,                                                                                                     |
| 7    | 1    | 3    | –    | 2    | Sleeve, PA, grey                                                                                                                                                |
| 8    | 2    | 2    | 2    | 2    | Washer A 2.7, DIN 125                                                                                                                                           |
| 9    | 2    | 2    | 2    | 2    | Panhead screw with Torx/slot, M2.5 x 6, St, zinc-plated, self-locking                                                                                           |
| 10   | 1    | 1    | –    | –    | Board support, die-cast zinc                                                                                                                                    |
| 11   | 1    | 1    | 1    | 1    | EMC sealing (textile), core: foam, sleeve: textile cladding, Cu-Ni coated                                                                                       |

04604050

6 U



04604051

#### Order Information

| Height<br>U | Width<br>HP | Part no.         |
|-------------|-------------|------------------|
| 3           | 4           | <b>20848-686</b> |
| 3           | 6           | <b>20848-687</b> |
| 3           | 8           | <b>20848-688</b> |
| 3           | 10          | <b>20848-689</b> |
| 3           | 12          | <b>20848-690</b> |
| 6           | 4           | <b>20848-691</b> |
| 6           | 6           | <b>20848-692</b> |
| 6           | 8           | <b>20848-693</b> |
| 6           | 10          | <b>20848-694</b> |
| 6           | 12          | <b>20848-695</b> |

■ Dimension drawing of front profile, see page 7.37

■ Description of micro switch see page 7.30



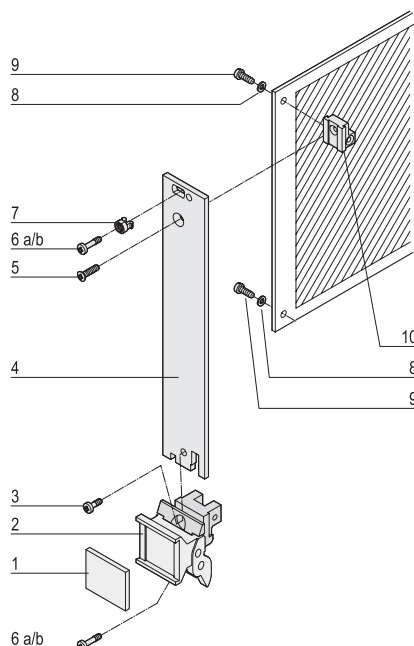
For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

## Plug-in units with cantilever extraction handles, type 2

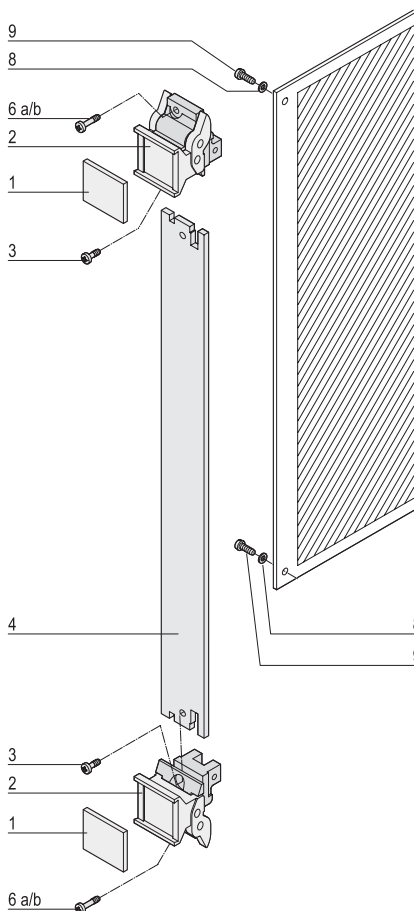
### Kits

### Plug-in units with cantilever extraction handle type 2

3 U



6 U



■ Unshielded

#### Delivery comprises (kit)

| Item | Qty  |      |      |      | Description                                                                                                 |
|------|------|------|------|------|-------------------------------------------------------------------------------------------------------------|
|      | 3 U  |      | 6 U  |      |                                                                                                             |
|      | <8HP | ≥8HP | <8HP | 8 HP |                                                                                                             |
| 1    | 1    | 1    | 2    | 2    | Identification plate, Al, 1.5 mm, anodised, cut edges plain                                                 |
| 2    | 1    | 1    | 2    | 2    | Extraction handle, cantilever, type 2, lever: PPE, light grey, RAL 7035, knot: die-cast zinc, nickel-plated |
| 3    | 1    | 1    | 2    | 2    | Flathead screw M2.5 x 6, nickel-plated                                                                      |
| 4    | 1    | 1    | 1    | 1    | Front panel, Al, 2.5 mm, front: anodised, rear: iridescent green chromated                                  |
| 5    | 1    | 1    | —    | —    | Raised Pozidrive countersunk screw, M2.5 × 8, St, nickel-plated                                             |
| 6a   | 2    | 4    | 2    | 4    | Collar screw, Pozidrive/slot, M2.5 x 12.3, St, nickel-plated                                                |
| 6b   | 2    | 4    | 2    | 4    | collar screw Pozidrive/slot, M2.5 x 11, St, nickel-plated                                                   |
| 7    | 1    | 3    | —    | 2    | Sleeve, PA, grey                                                                                            |
| 8    | 2    | 2    | 2    | 2    | Washer A 2.7                                                                                                |
| 9    | 2    | 2    | 2    | 2    | Panhead screw with Torx/slot, M2.5 x 6, St, zinc-plated, self-locking                                       |
| 10   | 1    | 1    | —    | —    | Board support, die-cast zinc                                                                                |

#### Order Information

| Height | Width | Part no.         |
|--------|-------|------------------|
| U      | HP    |                  |
| 3      | 4     | <b>20817-860</b> |
| 3      | 5     | <b>20817-861</b> |
| 3      | 6     | <b>20817-862</b> |
| 3      | 7     | <b>20817-863</b> |
| 3      | 8     | <b>20817-864</b> |
| 3      | 10    | <b>20817-865</b> |
| 3      | 12    | <b>20817-866</b> |
| 6      | 4     | <b>20817-867</b> |
| 6      | 5     | <b>20817-868</b> |
| 6      | 6     | <b>20817-869</b> |
| 6      | 7     | <b>20817-870</b> |
| 6      | 8     | <b>20817-871</b> |
| 6      | 10    | <b>20817-872</b> |
| 6      | 12    | <b>20817-873</b> |

■ Dimension drawing of front profile, see page 7.38

■ Description of micro switch see page 7.30



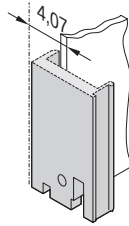
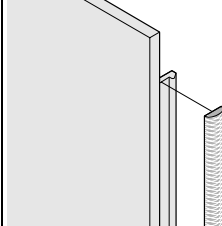
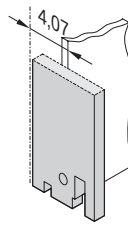
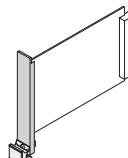
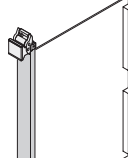
For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

## Plug-in units with cantilever extraction handles, type 2

### Individual components

### U front profiles/front panels for cantilever extraction handle type 2

#### Order Information

|                                                                                     |    | Front panel,<br>U profile,<br>shieldable<br>PCB fixing<br>without<br>offset                                                                                                                  | EMC textile gasket                                                                                                                                                                                                                                  |                  | Front panel,<br>unshielded<br>PCB fixing<br>without<br>offset                                                                                                      |
|-------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     |    |  <p>Al extrusion, front anodised, rear conductive; alignment pin pressed-in (3 U only), stainless steel</p> |  <p>Always fixed laterally on the front panel, in the groove of the profile, textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0</p> |                  |  <p>Front panel, Al, 2.5 mm, front anodised, rear iridescent green chromated</p> |
| Width                                                                               |    | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                                                                                | PU 10 pieces                                                                                                                                                                                                                                        | PU 100 pieces    | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                                                      |
| HP                                                                                  |    |                                                                                                                                                                                              |                                                                                                                                                                                                                                                     |                  |                                                                                                                                                                    |
| <b>3 U Height</b>                                                                   |    |                                                                                                                                                                                              |                                                                                                                                                                                                                                                     |                  |                                                                                                                                                                    |
|  | 4  | <b>30848-312</b>                                                                                                                                                                             | <b>21101-853</b>                                                                                                                                                                                                                                    | <b>21101-854</b> | <b>30848-327</b>                                                                                                                                                   |
|                                                                                     | 5  | <b>30848-300</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                     |                  | <b>30848-328</b>                                                                                                                                                   |
|                                                                                     | 6  | <b>30848-313</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                     |                  | <b>30848-329</b>                                                                                                                                                   |
|                                                                                     | 7  | <b>30848-301</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                     |                  | <b>30848-330</b>                                                                                                                                                   |
|                                                                                     | 8  | <b>30848-314</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                     |                  | <b>30848-331</b>                                                                                                                                                   |
|                                                                                     | 10 | <b>30848-315</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                     |                  | <b>30848-333</b>                                                                                                                                                   |
|                                                                                     | 12 | <b>30848-316</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                     |                  | <b>30848-335</b>                                                                                                                                                   |
| <b>6 U Height</b>                                                                   |    |                                                                                                                                                                                              |                                                                                                                                                                                                                                                     |                  |                                                                                                                                                                    |
|  | 4  | <b>30848-317</b>                                                                                                                                                                             | <b>21101-855</b>                                                                                                                                                                                                                                    | <b>21101-856</b> | <b>30848-336</b>                                                                                                                                                   |
|                                                                                     | 5  | <b>30848-304</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                     |                  | <b>30848-337</b>                                                                                                                                                   |
|                                                                                     | 6  | <b>30848-318</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                     |                  | <b>30848-338</b>                                                                                                                                                   |
|                                                                                     | 7  | <b>30848-305</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                     |                  | <b>30848-339</b>                                                                                                                                                   |
|                                                                                     | 8  | <b>30848-319</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                     |                  | <b>30848-340</b>                                                                                                                                                   |
|                                                                                     | 10 | <b>30848-320</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                     |                  | <b>30848-342</b>                                                                                                                                                   |
|                                                                                     | 12 | <b>30848-321</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                     |                  | <b>30848-344</b>                                                                                                                                                   |
| Dimension drawings see page                                                         |    | 7.37                                                                                                                                                                                         |                                                                                                                                                                                                                                                     |                  | 7.38                                                                                                                                                               |

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

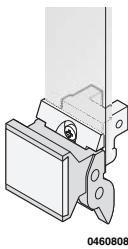
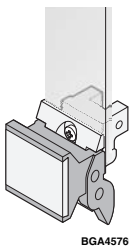
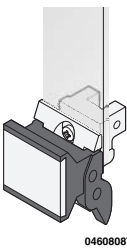
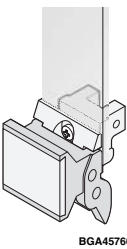
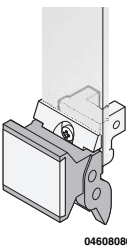
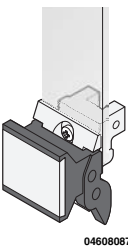
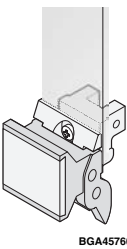
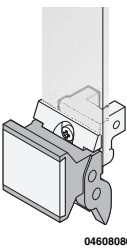
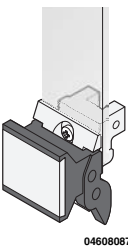
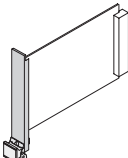
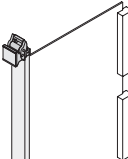
Part no. includes one packing unit (PU); delivery is exclusively made in PU

# Plug-in units with cantilever extraction handles, type 2

Individual  
components

## Cantilever extraction handles type 2

### Order Information

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cantilever extraction handle type 2<br>without alignment pin                                                                                                                                                                                                                                                  |                                                                                     |                                                                                     | Cantilever extraction handle type 2<br>with alignment pin                                                                                                                                                                                                                                                     |                                                                                     |                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | lever,<br>light grey,<br>RAL 7035                                                                                                                                                                                                                                                                             | lever,<br>dark grey,<br>RAL 7032                                                    | lever,<br>black,<br>RAL 9005                                                        | lever,<br>light grey,<br>RAL 7035                                                                                                                                                                                                                                                                             | lever,<br>dark grey,<br>RAL 7032                                                    | lever,<br>black,<br>RAL 9005                                                        |
|    <p>04608085      BGA45760      04608087</p> <p>Extraction handle, PPE; block, die-cast zinc, zinc-plated;<br/>identification plate, Al, 1.5 mm, anodised, cut edges plain;<br/>Pozidrive flathead screw, M2.5 x 6, nickel-plated;<br/>Pozidrive/slot collar screw, M2.5 x 12.3, St, nickel-plated;<br/>Pozidrive/slot collar screw, M2.5 x 11, St, nickel-plated</p> |                                                                                                                                                                                                                             |  |  |                                                                                                                                                                                                                             |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 04608085                                                                                                                                                                                                                                                                                                      | BGA45760                                                                            | 04608087                                                                            | BGA45760                                                                                                                                                                                                                                                                                                      | 04608086                                                                            | 04608087                                                                            |
| Width<br>HP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Extraction handle, PPE; block, die-cast zinc, zinc-plated;<br>identification plate, Al, 1.5 mm, anodised, cut edges plain;<br>Pozidrive flathead screw, M2.5 x 6, nickel-plated;<br>Pozidrive/slot collar screw, M2.5 x 12.3, St, nickel-plated;<br>Pozidrive/slot collar screw, M2.5 x 11, St, nickel-plated |                                                                                     |                                                                                     | Extraction handle, PPE; block, die-cast zinc, zinc-plated;<br>identification plate, Al, 1.5 mm, anodised, cut edges plain;<br>Pozidrive flathead screw, M2.5 x 6, nickel-plated;<br>Pozidrive/slot collar screw, M2.5 x 12.3, St, nickel-plated;<br>Pozidrive/slot collar screw, M2.5 x 11, St, nickel-plated |                                                                                     |                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 piece<br>(SPQ 10) <sup>1)</sup>                                                                                                                                                                                                                                                                             | 1 piece<br>(SPQ 10) <sup>1)</sup>                                                   | 1 piece<br>(SPQ 10) <sup>1)</sup>                                                   | 1 piece<br>(SPQ 10) <sup>1)</sup>                                                                                                                                                                                                                                                                             | 1 piece<br>(SPQ 10) <sup>1)</sup>                                                   | 1 piece<br>(SPQ 10) <sup>1)</sup>                                                   |
|  <p>04608114</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>3 U Height</b><br>top                                                                                                                                                                                                                                                                                      |                                                                                     |                                                                                     |                                                                                                                                                                                                                                                                                                               |                                                                                     |                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | —                                                                                                                                                                                                                                                                                                             | —                                                                                   | —                                                                                   | —                                                                                                                                                                                                                                                                                                             | —                                                                                   | —                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | bottom                                                                                                                                                                                                                                                                                                        |                                                                                     |                                                                                     |                                                                                                                                                                                                                                                                                                               |                                                                                     |                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>20817-858</b>                                                                                                                                                                                                                                                                                              | <b>20817-854</b>                                                                    | <b>20817-856</b>                                                                    | <b>20817-833</b>                                                                                                                                                                                                                                                                                              | <b>20817-829</b>                                                                    | <b>20817-831</b>                                                                    |
|  <p>04608115</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>6 U Height</b><br>top                                                                                                                                                                                                                                                                                      |                                                                                     |                                                                                     |                                                                                                                                                                                                                                                                                                               |                                                                                     |                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>20817-858</b>                                                                                                                                                                                                                                                                                              | <b>20817-854</b>                                                                    | <b>20817-856</b>                                                                    | <b>20817-833</b>                                                                                                                                                                                                                                                                                              | <b>20817-829</b>                                                                    | <b>20817-831</b>                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | bottom                                                                                                                                                                                                                                                                                                        |                                                                                     |                                                                                     |                                                                                                                                                                                                                                                                                                               |                                                                                     |                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>20817-858</b>                                                                                                                                                                                                                                                                                              | <b>20817-854</b>                                                                    | <b>20817-856</b>                                                                    | <b>20817-833</b>                                                                                                                                                                                                                                                                                              | <b>20817-829</b>                                                                    | <b>20817-831</b>                                                                    |
| Dimension drawings see page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7.39                                                                                                                                                                                                                                                                                                          |                                                                                     |                                                                                     | 7.39                                                                                                                                                                                                                                                                                                          |                                                                                     |                                                                                     |

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

Part no. includes one packing unit (PU); delivery is exclusively made in PU

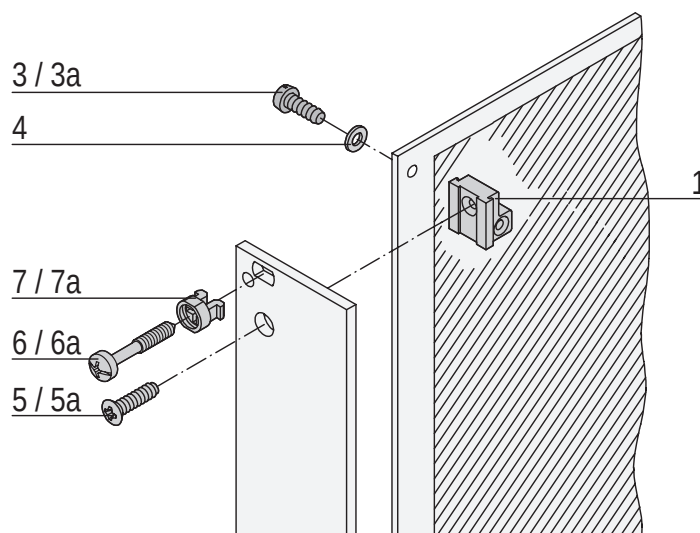


## Plug-in units with cantilever extraction handles, type 2

### Individual components

### Fixing kits for cantilever extraction handle type 2

#### Order Information



bga46045

| Assembly kits                                                                        | Item |                                                                                                 | Required Qty |        |        |        | Qty/PU                            | Part no.         |
|--------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------|--------------|--------|--------|--------|-----------------------------------|------------------|
|                                                                                      |      |                                                                                                 | 3 U          |        | 6 U    |        |                                   |                  |
|                                                                                      |      |                                                                                                 | < 8 HP       | ≥ 8 HP | < 8 HP | ≥ 8 HP |                                   |                  |
| Printed board bracket<br>Zn die-cast                                                 | 1    | <br>04608074 | 1            | 1      | –      | –      | 1 piece<br>(SPQ 10) <sup>1)</sup> | <b>60807-181</b> |
| Pozidrive flathead screw<br>M2.5 × 6, St, nickel-plated                              | 3    | <br>06702057 | 2            | 2      | 2      | 2      | 100                               | <b>21101-219</b> |
| Slotted panhead screw with Torx<br>M2.5 × 6, St, zinc-plated<br>Self-securing thread | 3a   | <br>aza45940 | 2            | 2      | 2      | 2      | 100                               | <b>24560-159</b> |
| Washer<br>2.7, St, nickel-plated                                                     | 4    | <br>AZA46586 | 2            | 2      | 2      | 2      | 100                               | <b>21100-721</b> |
| Raised Pozidrive countersunk screw<br>M2.5 × 8, St, nickel-plated                    | 5    | <br>06702056 | 1            | 1      | –      | –      | 100                               | <b>21100-429</b> |
| Raised countersunk head screw with Torx<br>M2.5 × 8, St, nickel-plated               | 5a   | <br>06708050 | 1            | 1      | –      | –      | 100                               | <b>24560-164</b> |
| Pozidrive/slotted collar screw<br>M2.5 × 11, St, nickel-plated                       | 6    | <br>AZA46586 | 1            | 3      | –      | 2      | 100                               | <b>21100-748</b> |
| Pozidrive/slotted collar screw<br>M2.5 × 12,3, St, nickel-plated                     | 6a   | <br>AZA46586 | 1            | 3      | –      | 2      | 100                               | <b>21101-101</b> |
| For form hole 5.9 x 3.3, PA, UL 94 V-2, grey                                         | 7    | <br>aza45933 | 1            | 3      | –      | 2      | 100                               | <b>21100-464</b> |
| Metal sleeve, for form hole 5.9 x 3.3, press-in<br>St, stainless steal               | 7a   | <br>AZA43239 | 1            | 3      | –      | 2      | 100                               | <b>21100-662</b> |

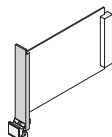
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

## Plug-in units with cantilever extraction handles, type 2

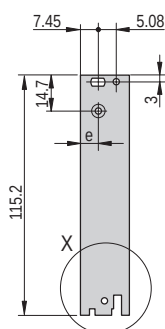
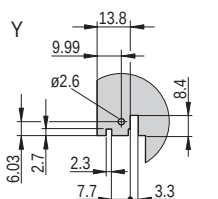
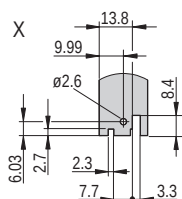
### Dimension drawings

### Front panels, U profile, for cantilever extraction handle type 2, shieldable

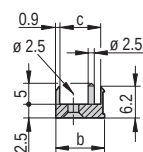
3 U



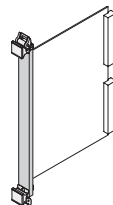
04608109



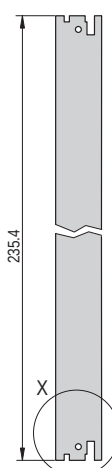
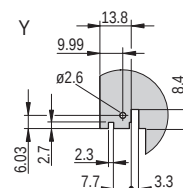
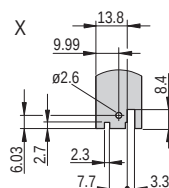
4 HP



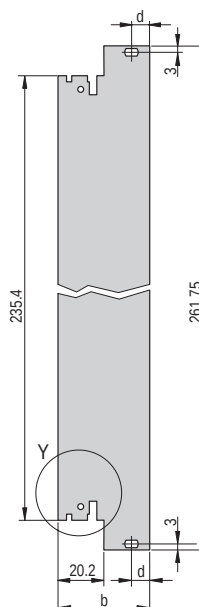
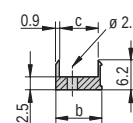
6 U



04608107



4 HP



≥ 5 HP

04608065

Dimensions table

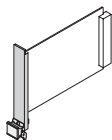
| Width<br>HP | b<br>mm | c<br>mm | d<br>mm | e<br>mm |
|-------------|---------|---------|---------|---------|
| 4           | 19.98   | 17.45   | —       | 7.45    |
| 5           | 25.06   | 22.53   | —       | 7.45    |
| 6           | 30.14   | 27.61   | —       | 7.45    |
| 7           | 35.22   | 32.69   | —       | 7.45    |
| 8           | 40.30   | 37.77   | 7.45    | 7.45    |
| 9           | 45.38   | 42.85   | 7.45    | 7.45    |
| 10          | 50.46   | 47.93   | 7.45    | 7.45    |
| 11          | 55.54   | 53.01   | 7.45    | 7.45    |
| 12          | 60.62   | 58.09   | 7.45    | 7.45    |
| 14          | 70.78   | 68.25   | 7.45    | 7.45    |
| 16          | 80.94   | 78.41   | 7.45    | 7.45    |

## Plug-in units with cantilever extraction handles, type 2

### Dimension drawings

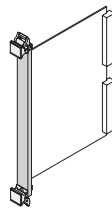
### Front panels, cantilever extraction handles type 2, unshielded

3 U

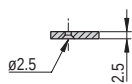
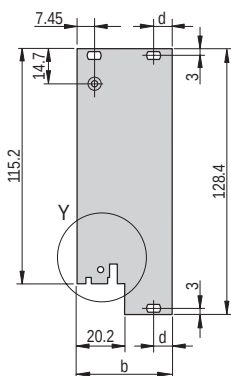
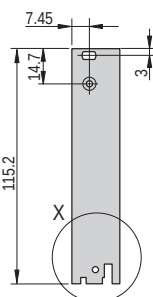
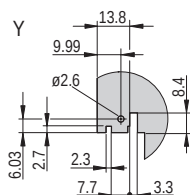
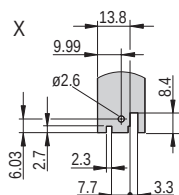


04608089

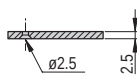
6 U



04608088

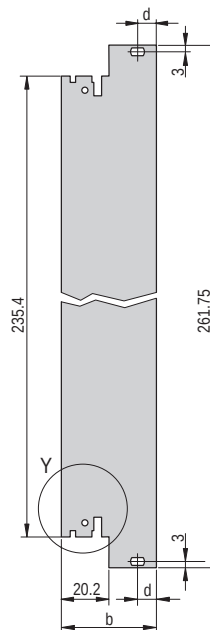
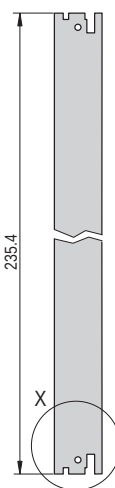
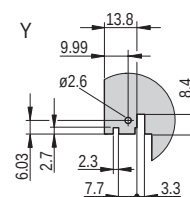
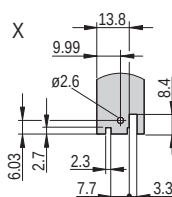


4 HP



≥ 5 HP

04608077



4 HP



≥ 5 HP

04608078

Dimensions table

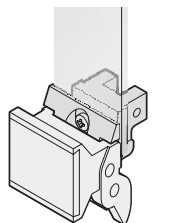
| Width<br>HP | b<br>mm | c<br>mm | d<br>mm | e<br>mm |
|-------------|---------|---------|---------|---------|
| 4           | 19.98   | 17.45   | —       | 7.45    |
| 5           | 25.06   | 22.53   | —       | 7.45    |
| 6           | 30.14   | 27.61   | —       | 7.45    |
| 7           | 35.22   | 32.69   | —       | 7.45    |
| 8           | 40.30   | 37.77   | 7.45    | 7.45    |
| 9           | 45.38   | 42.85   | 7.45    | 7.45    |
| 10          | 50.46   | 47.93   | 7.45    | 7.45    |
| 11          | 55.54   | 53.01   | 7.45    | 7.45    |
| 12          | 60.62   | 58.09   | 7.45    | 7.45    |
| 14          | 70.78   | 68.25   | 7.45    | 7.45    |
| 16          | 80.94   | 78.41   | 7.45    | 7.45    |

## Plug-in units with cantilever extraction handles, type 2

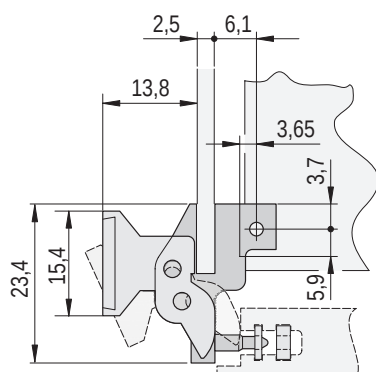
### Dimension drawings

### Cantilever extraction handles type 2

with alignment pin

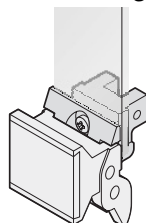


04604056

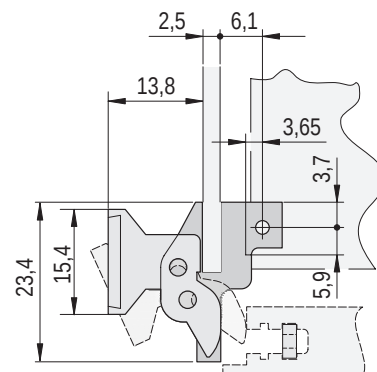


04604054

without alignment pin



04604056

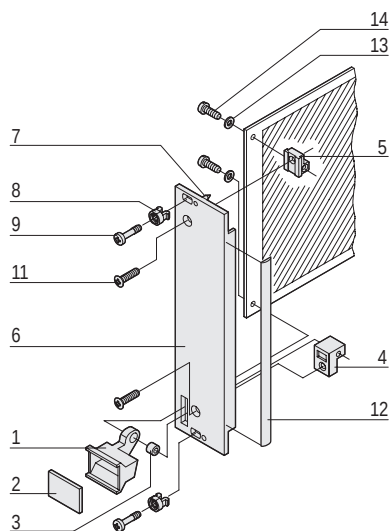


04607059

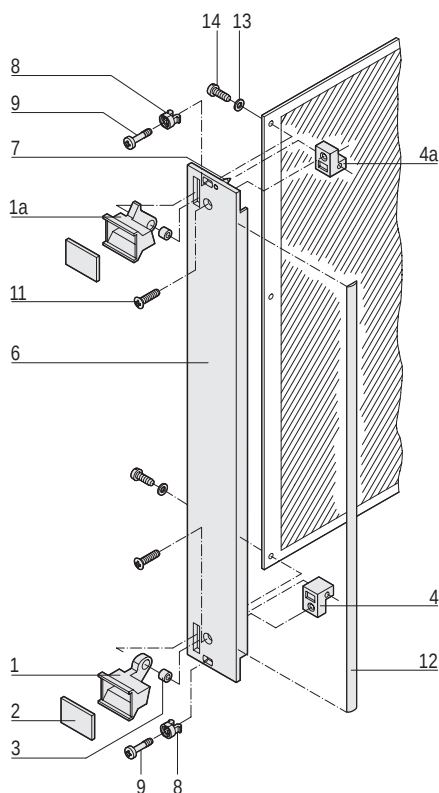
## Plug-in units with cantilever extraction handles

### Kits

3 U



6 U



### Plug-in units with cantilever extraction handle – front panel, U-profile, shielded

■ At 6 U the board position can be offset by 1 HP to the right by swapping the top and bottom board holders; thus space is created for SMD components on the left (solder) side; for board thickness 1.6 mm only

#### Delivery comprises (kit)

| Item | Qty | 3 U | 6 U | Description                                                                                |
|------|-----|-----|-----|--------------------------------------------------------------------------------------------|
| 1    | 1   | 1   |     | Extraction handle, cantilever type, PPE, grey, bottom                                      |
| 1a   | -   |     | 1   | Extraction handle, cantilever type, PPE, grey, top                                         |
| 2    | 1   | 2   |     | Identification plate, Al, 1.5 mm, anodised, cut edges plain                                |
| 3    | 1   | 2   |     | Pivot bush, Ms                                                                             |
| 4    | 1   | 1   |     | Board support, die-cast zinc, bottom                                                       |
| 4a   | -   |     | 1   | Board support, die-cast zinc, top                                                          |
| 5    | 1   | -   |     | Board support, die-cast zinc                                                               |
| 6    | 1   | 1   |     | Front panel, U profile, for cantilever extraction handle, front anodised, rear conductive  |
| 7    | 2   | 2   |     | Alignment pin, pressed-in, stainless steel                                                 |
| 8    | 2   | 2   |     | Sleeve, PA, grey, up to 7 HP front panel width                                             |
| 8    | 4   | 4   |     | Sleeve, PA, grey, from 8 HP front panel width                                              |
| 9    | 2   | 2   |     | Collar screw, Pozidrive/slot, St, nickel-plated, M2.5 × 12.3, front panel width up to 7 HP |
| 9    | 4   | 4   |     | Collar screw, Pozidrive/slot, St, nickel-plated, M2.5 × 12.3, front panel width from 8 HP  |
| 11   | 1   | 2   |     | Raised countersunk panhead screw, M2.5 × 8                                                 |
| 12   | 1   | 1   |     | EMC gasket (textile)                                                                       |
| 13   | 2   | 2   |     | Washer, A2.7                                                                               |
| 14   | 2   | 2   |     | Pozidrive flathead screw, St, nickel-plated, M2.5 × 10                                     |

04602058

#### Order Information

| Width | 3 U              | 6 U              |
|-------|------------------|------------------|
| HP    | Part no.         | Part no.         |
| 4     | <b>20848-485</b> | <b>20848-492</b> |
| 6     | <b>20848-487</b> | <b>20848-494</b> |
| 8     | <b>20848-489</b> | <b>20848-496</b> |
| 10    | <b>20848-490</b> | <b>20848-497</b> |
| 12    | <b>20848-491</b> | <b>20848-498</b> |



For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

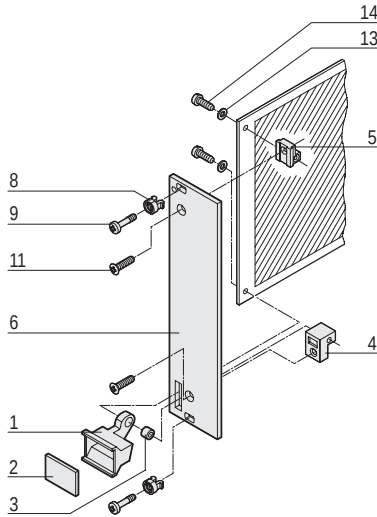
04602059

## Plug-in units with cantilever extraction handles

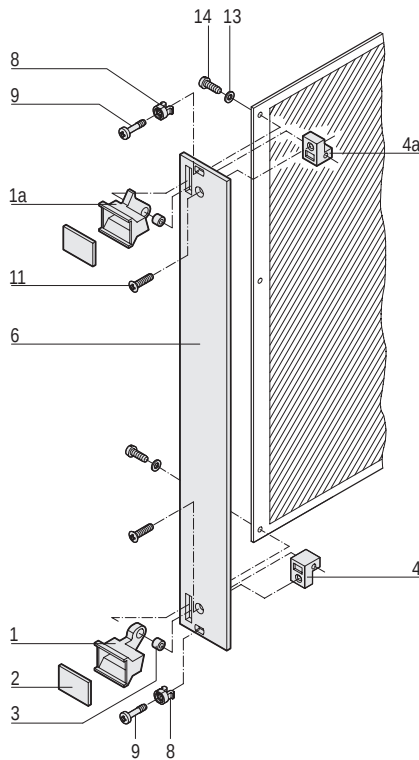
### Kits

### Plug-in units type 2 with cantilever extraction handle, front panel unshielded

3 U



6 U



- At 6 U the board position can be offset by 1 HP to the right by swapping the top and bottom board holders; thus space is created for SMD components on the left (solder) side; for board thickness 1.6 mm only

#### Delivery comprises (kit)

| Item | Qty |     | Description                                                                                       |
|------|-----|-----|---------------------------------------------------------------------------------------------------|
|      | 3 U | 6 U |                                                                                                   |
| 1    | 1   | 1   | Extraction handle, cantilever type, PPE, grey, bottom                                             |
| 1a   | –   | 1   | Extraction handle, cantilever type, PPE, grey, top                                                |
| 2    | 1   | 2   | Identification plate, Al, 1.5 mm, anodised, cut edges plain                                       |
| 3    | 1   | 2   | Pivot bush, Ms                                                                                    |
| 4    | 1   | 1   | Board support, die-cast zinc, bottom                                                              |
| 4a   | –   | 1   | Board support, die-cast zinc, top                                                                 |
| 5    | 1   | –   | Board support, die-cast zinc                                                                      |
| 6    | 1   | 1   | Front panel for cantilever extraction handle, front anodised, rear iridescent green chromated     |
| 8    | 2   | 2   | Sleeve, PA, grey, up to 7 HP front panel width                                                    |
| 8    | 4   | 4   | Sleeve, PA, grey, from 8 HP front panel width                                                     |
| 9    | 2   | 2   | Collar screw, Pozidrive/slot, St, nickel-plated, M2.5 × 11 and 12.3, front panel width up to 7 HP |
| 9    | 4   | 4   | Collar screw, Pozidrive/slot, St, nickel-plated, M2.5 × 11 and 12.3, front panel width from 8 HP  |
| 11   | 1   | 2   | Raised countersunk panhead screw, M2.5 × 8                                                        |
| 13   | 2   | 2   | Washer, A2.7                                                                                      |
| 14   | 2   | 2   | Pozidrive flathead screw, St, nickel-plated, M2.5 × 10                                            |

#### Order Information

| Width<br>HP | 3 U              |  | 6 U              |  |
|-------------|------------------|--|------------------|--|
|             | Part no.         |  | Part no.         |  |
| 4           | <b>20817-443</b> |  | <b>20817-448</b> |  |
| 5           | <b>20817-444</b> |  | <b>20817-449</b> |  |
| 6           | <b>20817-445</b> |  | <b>20817-450</b> |  |
| 7           | <b>20817-446</b> |  | <b>20817-451</b> |  |
| 8           | <b>20817-447</b> |  | <b>20817-452</b> |  |
| 10          | <b>20817-456</b> |  | <b>20817-458</b> |  |
| 12          | <b>20817-457</b> |  | <b>20817-459</b> |  |



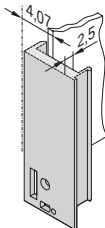
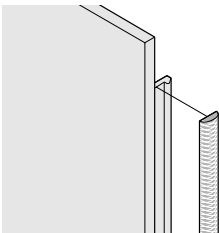
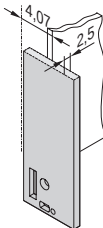
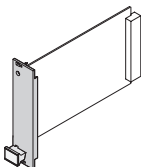
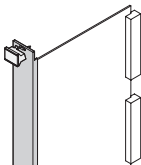
For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

## Plug-in units with cantilever extraction handles

### Individual components

### Front panels, EMC gaskets for cantilever extraction handles

#### Order Information

|                                                                                                                   |                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                         |                      |                      |
|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|
|                                                                                                                   | <div>Front panel,<br/>U profile,<br/>shieldable</div> <div><div>04608091</div></div> <div>Al extrusion,<br/>front anodised,<br/>rear conductive,<br/>alignment pin<br/>pressed-in,<br/>stainless steel</div> <div>1 piece<br/>(SPQ 5)<sup>1)</sup></div> | <div>EMC textile gasket</div> <div><div>BGA45760</div></div> <div>Fixed laterally on the front panel,<br/>in the groove of the profile in<br/>each case<br/>textile gasket,<br/>core: foam, sleeve:<br/>textile cladding with CuNi coating,<br/>UL 94 V-0</div> <div>PU 10 pieces</div> <div>PU 100 pieces</div> | <div>Front panel,<br/>unshielded</div> <div><div>04608092</div></div> <div>Front panel,<br/>Al, 2.5 mm,<br/>front anodised,<br/>rear iridescent<br/>green chromated</div> <div>1 piece<br/>(SPQ 5)<sup>1)</sup></div> |                      |                      |
| <div>Width<br/>HP</div>                                                                                           |                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                         |                      |                      |
| <div>3 U Height</div>                                                                                             |                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                         |                      |                      |
| <div><div>04608117</div></div> | <div>4</div>                                                                                                                                                                                                                                                                                                                              | <div>30848-461</div>                                                                                                                                                                                                                                                                                                                                                                              | <div>21101-853</div>                                                                                                                                                                                                                                                                                    | <div>21101-854</div> | <div>30847-659</div> |
|                                                                                                                   | <div>5</div>                                                                                                                                                                                                                                                                                                                              | <div>—</div>                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                         |                      | <div>30847-660</div> |
|                                                                                                                   | <div>6</div>                                                                                                                                                                                                                                                                                                                              | <div>30848-463</div>                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                         |                      | <div>30847-661</div> |
|                                                                                                                   | <div>7</div>                                                                                                                                                                                                                                                                                                                              | <div>—</div>                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                         |                      | <div>30847-662</div> |
|                                                                                                                   | <div>8</div>                                                                                                                                                                                                                                                                                                                              | <div>30848-465</div>                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                         |                      | <div>30847-663</div> |
|                                                                                                                   | <div>10</div>                                                                                                                                                                                                                                                                                                                             | <div>30848-466</div>                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                         |                      | <div>30847-664</div> |
|                                                                                                                   | <div>12</div>                                                                                                                                                                                                                                                                                                                             | <div>30848-467</div>                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                         |                      | <div>30847-665</div> |
| <div>6 U Height</div>                                                                                             |                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                         |                      |                      |
| <div><div>04608116</div></div> | <div>4</div>                                                                                                                                                                                                                                                                                                                              | <div>30848-468</div>                                                                                                                                                                                                                                                                                                                                                                              | <div>21101-855</div>                                                                                                                                                                                                                                                                                    | <div>21101-856</div> | <div>30847-666</div> |
|                                                                                                                   | <div>5</div>                                                                                                                                                                                                                                                                                                                              | <div>—</div>                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                         |                      | <div>30847-667</div> |
|                                                                                                                   | <div>6</div>                                                                                                                                                                                                                                                                                                                              | <div>30848-470</div>                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                         |                      | <div>30847-668</div> |
|                                                                                                                   | <div>7</div>                                                                                                                                                                                                                                                                                                                              | <div>—</div>                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                         |                      | <div>30847-669</div> |
|                                                                                                                   | <div>8</div>                                                                                                                                                                                                                                                                                                                              | <div>30848-472</div>                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                         |                      | <div>30847-670</div> |
|                                                                                                                   | <div>10</div>                                                                                                                                                                                                                                                                                                                             | <div>30848-473</div>                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                         |                      | <div>30847-671</div> |
|                                                                                                                   | <div>12</div>                                                                                                                                                                                                                                                                                                                             | <div>30848-474</div>                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                         |                      | <div>30847-672</div> |
| Dimension drawings see page                                                                                       |                                                                                                                                                                                                                                                                                                                                           | 7.45                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                         |                      | 7.45                 |

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

Part no. includes one packing unit (PU); delivery is exclusively made in PU

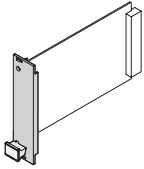
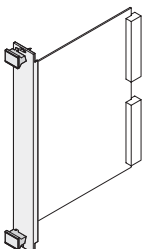


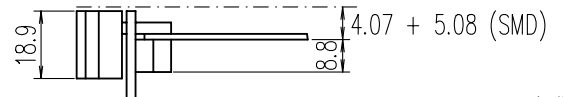
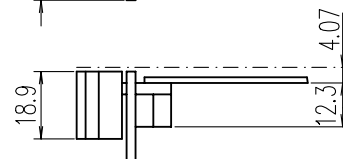
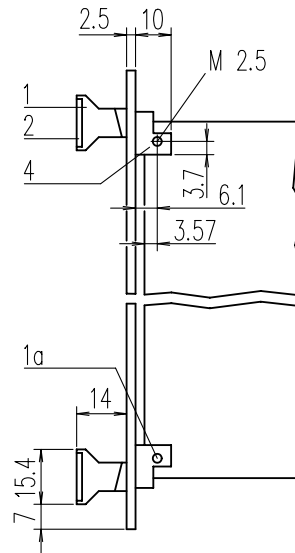
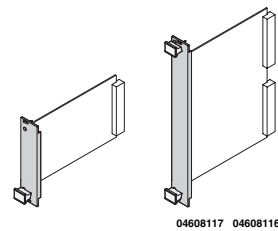
# Plug-in units with cantilever extraction handles

Individual  
components

Cantilever extraction handles

## Order Information

|                                                                                                 | Cantilever extraction handle                                                                                                                                                                                                                                                                                                              |                                                                                               |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                                                                                 | black                                                                                                                                                                                                                                                                                                                                     | grey                                                                                          |
|                                                                                                 | <br>04608093                                                                                                                                                                                                                                             | <br>04608094 |
|                                                                                                 | <p>Handle closed laterally, PPE, UL 94 V-1, black; pivot bush; identification plate, Al, 1.5 mm, anodised, cut edges plain; board support die-cast zinc</p> <p>in the 6 U version, space can be created for SMD components on the left side by swapping the top and bottom handles and thus moving the PCB position 1 HP to the right</p> |                                                                                               |
| Width<br>HP                                                                                     | 1 piece (SPQ 10) <sup>1)</sup>                                                                                                                                                                                                                                                                                                            | 1 piece (SPQ 10) <sup>1)</sup>                                                                |
| <br>04608119 | <b>3 U Height top</b>                                                                                                                                                                                                                                                                                                                     |                                                                                               |
|                                                                                                 | —                                                                                                                                                                                                                                                                                                                                         | —                                                                                             |
|                                                                                                 | <b>bottom</b>                                                                                                                                                                                                                                                                                                                             |                                                                                               |
|                                                                                                 | <b>20817-329</b>                                                                                                                                                                                                                                                                                                                          | <b>20817-327</b>                                                                              |
| <br>04608118 | <b>6 U Height top</b>                                                                                                                                                                                                                                                                                                                     |                                                                                               |
|                                                                                                 | <b>20817-330</b>                                                                                                                                                                                                                                                                                                                          | <b>20817-328</b>                                                                              |
|                                                                                                 | <b>bottom</b>                                                                                                                                                                                                                                                                                                                             |                                                                                               |
|                                                                                                 | <b>20817-329</b>                                                                                                                                                                                                                                                                                                                          | <b>20817-327</b>                                                                              |



bga42556

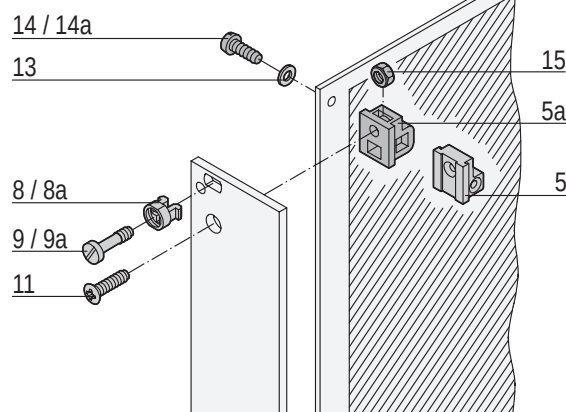
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

## Plug-in units with cantilever extraction handles

### Individual components

### Assembly parts for plug-in unit with cantilever extractor handle

#### Order Information



bga42545

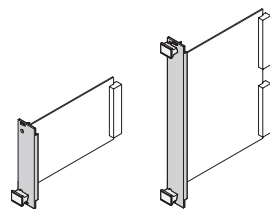
| Assembly kits                                                                                           | Item |                                                                                                 | Required Qty |       |        |       | Qty/PU                         | Part no.         |
|---------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------|--------------|-------|--------|-------|--------------------------------|------------------|
|                                                                                                         |      |                                                                                                 | 3 U          |       | 6 U    |       |                                |                  |
|                                                                                                         |      |                                                                                                 | < 8 HP       | ≥8 HP | < 8 HP | ≥8 HP |                                |                  |
| Board support, die-cast zinc, with thread M2.5, for front panel and PCB fixing;                         | 5    | <br>04608074  | 1            | 2     | 2      | 4     | 1 piece (SPQ 10) <sup>1)</sup> | <b>60807-181</b> |
| Board support, plastic, PBT, UL 94 V-0, grey, with recess for hexagon nut M2.5, for fixing front panel: | 5a   | <br>06702057 | 1            | 2     | 2      | 4     | 1 piece (SPQ 10) <sup>1)</sup> | <b>60807-183</b> |
| Plastic sleeve, for form hole 5.9 x 3.3, PA, UL 90 V-2, grey                                            | 8    | <br>aza45933 | 2            | 4     | 2      | 4     | 100                            | <b>21100-464</b> |
| Metal sleeve, for form hole 5.9 x 3.3, press-in Stainless steal                                         | 8a   | <br>AZA43239 | 2            | 4     | —      | —     | 100                            | <b>21100-662</b> |
| Pozidrive/slotted collar screw<br>M2.5 × 11, St, nickel-plated                                          | 9    | <br>AZA46586 | 2            | 4     | 2      | 4     | 100                            | <b>21100-748</b> |
| Pozidrive/slotted collar screw<br>M2.5 × 12,3, St, nickel-plated                                        | 9a   | <br>AZA46586 | 2            | 4     | 2      | 4     | 100                            | <b>21101-101</b> |
| Raised Pozidrive countersunk screw<br>M2.5 × 8, St, nickel-plated                                       | 11   | <br>06702056 | 2            | 2     | 2      | 2     | 100                            | <b>21100-429</b> |
| Washer<br>2.7, nickel-plated steel                                                                      | 13   | <br>AZA46586 | 2            | 2     | 2      | 2     | 100                            | <b>21100-721</b> |
| Pozidrive panhead screw<br>M2.5 × 10, St, nickel-plated<br>for item 5                                   | 14   | <br>06702057 | 2            | 2     | 2      | 2     | 100                            | <b>21101-220</b> |
| Pan head screw, self-tapping<br>2.5 x 8, St, zinc-plated<br>for item 5a                                 | 14a  | <br>06702057 | 1            | 1     | —      | —     | 100                            | <b>21100-710</b> |
| Hexagon nut<br>M2.5, nickel-plated steel<br>for item 5a                                                 | 15   | <br>AZA43239 | 1            | 1     | —      | —     | 100                            | <b>21100-144</b> |

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

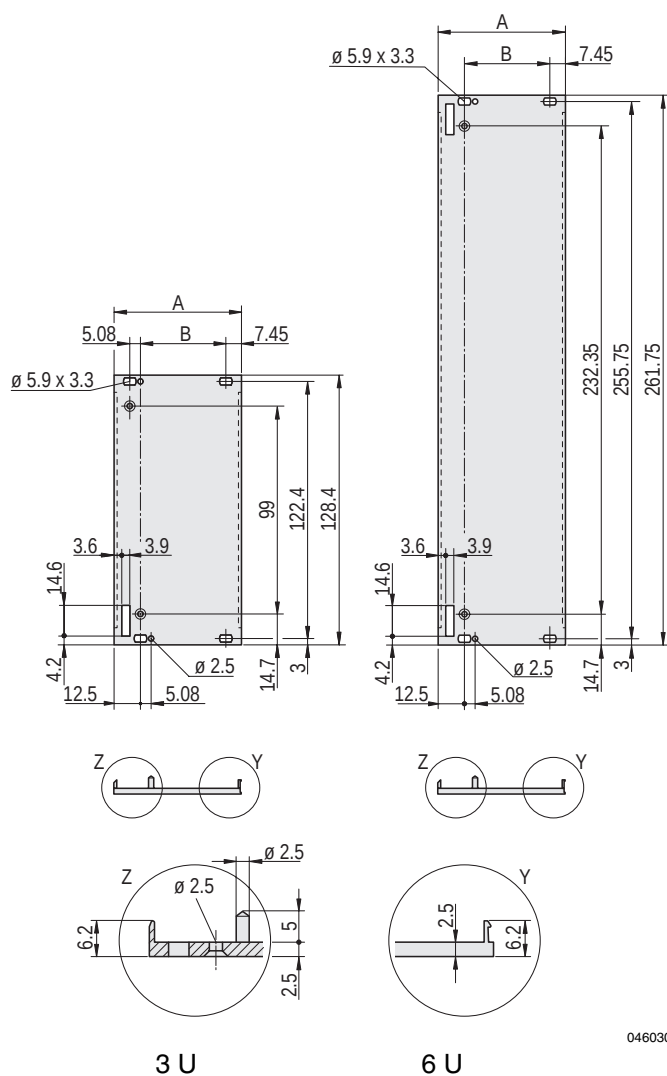
# Plug-in units with cantilever extraction handles

## Dimension drawings

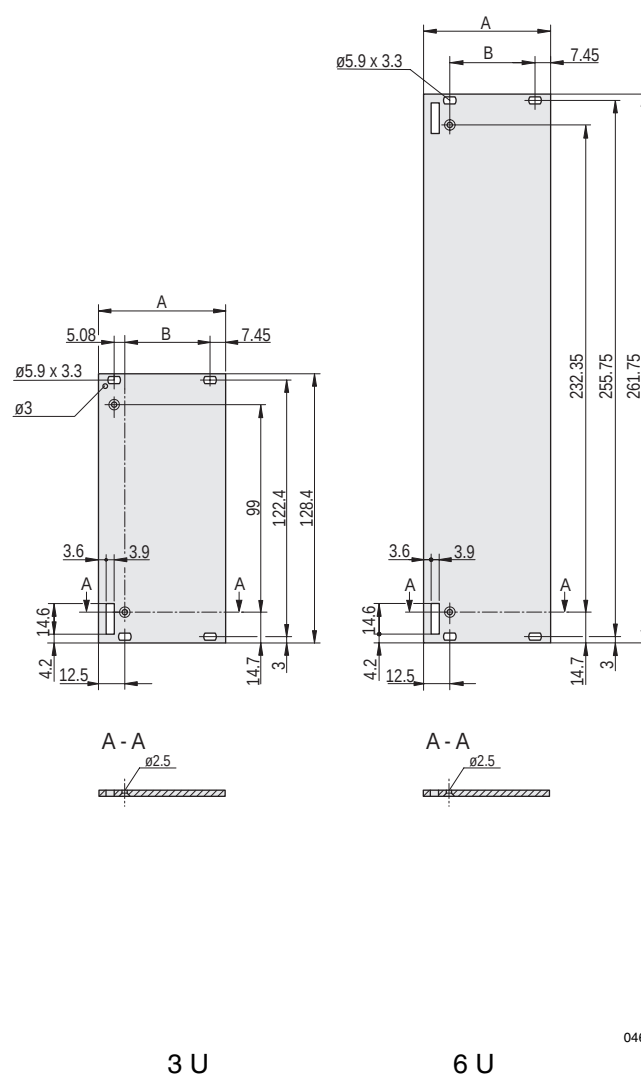
## Front panels for cantilever extraction handles, shielded/unshielded



04608117 04608116



04603063



04603054

Dimensions table

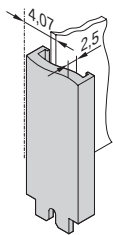
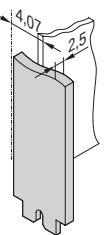
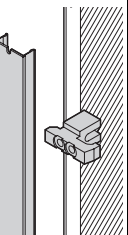
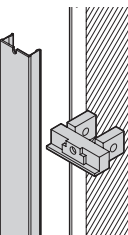
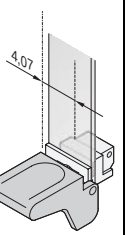
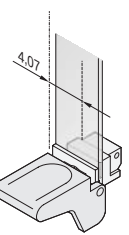
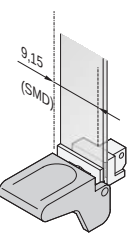
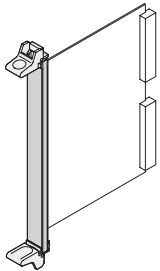
| Width | A     | B     |
|-------|-------|-------|
| HP    | mm    | mm    |
| 4     | 19.98 | —     |
| 5     | 25.06 | —     |
| 6     | 30.14 | —     |
| 7     | 35.22 | —     |
| 8     | 40.30 | 20.32 |
| 10    | 50.46 | 30.48 |
| 12    | 60.62 | 40.64 |

## Plug-in units with handles for Multibus II

### Individual components

### Front panels/extraction handles for Multibus® II, symmetrical/SMD version

#### Order Information

|                                                                                          | U front profile                                                                                               | Front panel                                                                                                                                        | Mounting block                                                                                                                                                                                     |                                                                                                                                                                                                     | Extraction handle for Multibus® II                                                                                                                                                                                                                                                         |                                                                                                 |                                                                                                 |
|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|                                                                                          |                                                                                                               |                                                                                                                                                    | for D-Sub connector (9-37-pin)                                                                                                                                                                     | for D-Sub connector (50-pin)                                                                                                                                                                        | symmetrical handle<br>grey, RAL 7032                                                                                                                                                                                                                                                       | Intel® white                                                                                    | SMD handle<br>grey, RAL 7032                                                                    |
|                                                                                          | <br>04608095<br>Al extrusion | <br>04608096<br>Front panel, Al 2.5 mm, anodised, cut edges plain | <br>04608097<br>For fixing D-Sub connectors 9-37-pin, thread on front M 2.5; required qty: for 6 U 1x, for 9 U 2x | <br>04608098<br>For fixing D-Sub connectors 50-pin, thread on front UNC4/40; required qty: for 6 U 1x, for 9 U 2x | <br>04608099<br>Extraction handle for Multibus® II, PC, UL 94 V-0; bearing nickel-plated die-cast zinc; cylinder head screw with slot, M2.5 x 6; Pozidrive collar screw, M2.5 x 12.3, St, nickel-plated | <br>04608100 | <br>04608108 |
| Width HP                                                                                 | 1 piece (SPQ 5) <sup>1)</sup>                                                                                 | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                                      | 1 piece (SPQ 10) <sup>1)</sup>                                                                                                                                                                     | 1 piece (SPQ 10) <sup>1)</sup>                                                                                                                                                                      | 1 piece (SPQ 10) <sup>1)</sup>                                                                                                                                                                                                                                                             | 1 piece (SPQ 10) <sup>1)</sup>                                                                  | 1 piece (SPQ 10) <sup>1)</sup>                                                                  |
| <br>4 | <b>3 U Height</b>                                                                                             |                                                                                                                                                    |                                                                                                                                                                                                    |                                                                                                                                                                                                     | <b>3 U Height top</b>                                                                                                                                                                                                                                                                      |                                                                                                 |                                                                                                 |
|                                                                                          | <b>30829-001</b>                                                                                              | <b>30829-006</b>                                                                                                                                   | <b>60829-005</b>                                                                                                                                                                                   | <b>60829-008</b>                                                                                                                                                                                    | —                                                                                                                                                                                                                                                                                          | —                                                                                               | —                                                                                               |
|                                                                                          |                                                                                                               |                                                                                                                                                    |                                                                                                                                                                                                    |                                                                                                                                                                                                     | <b>bottom</b>                                                                                                                                                                                                                                                                              |                                                                                                 |                                                                                                 |
|                                                                                          |                                                                                                               |                                                                                                                                                    |                                                                                                                                                                                                    |                                                                                                                                                                                                     | <b>20829-011</b>                                                                                                                                                                                                                                                                           | <b>20829-019</b>                                                                                | <b>20829-003</b>                                                                                |
|                                                                                          | <b>6 U Height</b>                                                                                             |                                                                                                                                                    |                                                                                                                                                                                                    |                                                                                                                                                                                                     | <b>6 U Height top</b>                                                                                                                                                                                                                                                                      |                                                                                                 |                                                                                                 |
|                                                                                          | <b>30829-007</b>                                                                                              | —                                                                                                                                                  | <b>60829-005</b>                                                                                                                                                                                   | <b>60829-008</b>                                                                                                                                                                                    | <b>20829-011</b>                                                                                                                                                                                                                                                                           | <b>20829-019</b>                                                                                | <b>20829-004</b>                                                                                |
| <br>4 |                                                                                                               |                                                                                                                                                    |                                                                                                                                                                                                    |                                                                                                                                                                                                     | <b>bottom</b>                                                                                                                                                                                                                                                                              |                                                                                                 |                                                                                                 |
|                                                                                          |                                                                                                               |                                                                                                                                                    |                                                                                                                                                                                                    |                                                                                                                                                                                                     | <b>20829-011</b>                                                                                                                                                                                                                                                                           | <b>20829-019</b>                                                                                | <b>20829-003</b>                                                                                |
| Dimension drawings see page                                                              | 7.47                                                                                                          | 7.47                                                                                                                                               | 7.47                                                                                                                                                                                               | 7.47                                                                                                                                                                                                | 7.47                                                                                                                                                                                                                                                                                       | 7.47                                                                                            | 7.47                                                                                            |

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ);

please order at least the SPQ quantity or a multiple

Part no. includes one packing unit (PU); delivery is exclusively made in PU

## Plug-in units with handles for Multibus II

## Dimension drawings **Front panels, U profile/front panels for Multibus**

## Dimension drawings **Front panels, U profile/front panels for Multibus**

04608102

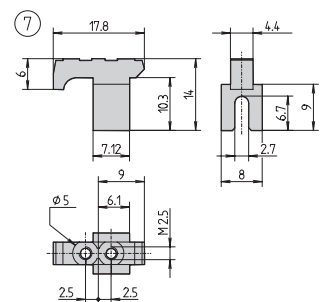
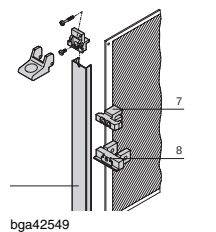


04608136



## Dimension drawings Extraction handles, center fixing mounting block for Multibus II

## Dimension drawings Extraction handles, center fixing mounting block for Multibus II



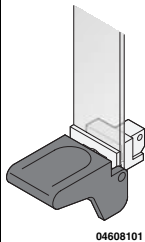
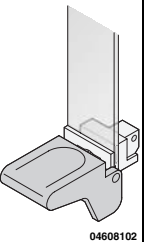
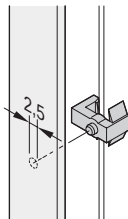
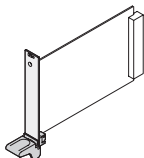
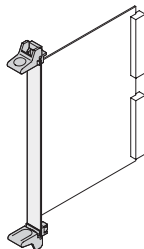
bga42584 bga42585

# Plug-in units with extraction handles in key form 1

## Individual components

## Extraction handles in key form 1

### Order Information

|                                                                                                 | Extraction handle                                                                                                                                                                                                                                                                                               |                                                                                               | Front panel                                                                                   | Fixing clamp                                                                                                               |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
|                                                                                                 | black                                                                                                                                                                                                                                                                                                           | grey                                                                                          |                                                                                               |                                                                                                                            |
|                                                                                                 | <br>04608101                                                                                                                                                                                                                   | <br>04608102 | <br>04608103 | <br>bga42544                             |
|                                                                                                 | Extraction handle in key form 1, PC, UL 94 V-0; bearing, Zn die-cast, nickel-plated; cylinder head screw with groove, M2.5 x 6 (fitted); in the 6 U version, space can be created for SMD components on the left side by swapping the top and bottom handles and thus moving the PCB position 1 HP to the right |                                                                                               | Al, 2.5 mm; available on request                                                              | For fixing PCB to the front panel (blind hole X2.6, depth 1.3 mm); also for SMD applications; clamp, PPE, UL 94 V-0, black |
|                                                                                                 | 1 piece (SPQ 10) <sup>1)</sup>                                                                                                                                                                                                                                                                                  | 1 piece (SPQ 10) <sup>1)</sup>                                                                |                                                                                               | PU 100 pieces                                                                                                              |
| <br>04608123 | <b>3 U Height top</b>                                                                                                                                                                                                                                                                                           |                                                                                               |                                                                                               |                                                                                                                            |
|                                                                                                 | —                                                                                                                                                                                                                                                                                                               | —                                                                                             | —                                                                                             | —                                                                                                                          |
|                                                                                                 | <b>bottom</b>                                                                                                                                                                                                                                                                                                   |                                                                                               |                                                                                               |                                                                                                                            |
|                                                                                                 | <b>20817-345</b>                                                                                                                                                                                                                                                                                                | <b>20817-325</b>                                                                              | —                                                                                             | —                                                                                                                          |
| <br>04608122 | <b>6 U Height top</b>                                                                                                                                                                                                                                                                                           |                                                                                               |                                                                                               |                                                                                                                            |
|                                                                                                 | <b>20817-346</b>                                                                                                                                                                                                                                                                                                | <b>20817-326</b>                                                                              | —                                                                                             | <b>21100-719</b>                                                                                                           |
|                                                                                                 | <b>bottom</b>                                                                                                                                                                                                                                                                                                   |                                                                                               |                                                                                               |                                                                                                                            |
|                                                                                                 | <b>20817-345</b>                                                                                                                                                                                                                                                                                                | <b>20817-325</b>                                                                              | —                                                                                             |                                                                                                                            |
| Dimension drawings see page                                                                     | 7.50                                                                                                                                                                                                                                                                                                            | 7.50                                                                                          | 7.50                                                                                          |                                                                                                                            |

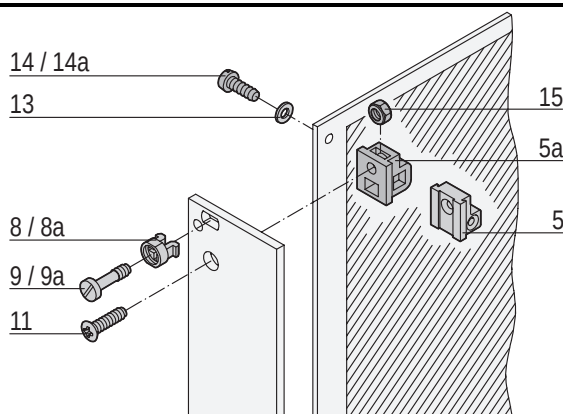
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple  
Part no. includes one packing unit (PU); delivery is exclusively made in PU

# Plug-in units with extraction handles in key form 1

## Individual components

## Assembly kits for extraction handle in key form 1

### Order Information



bga42545

| Assembly kits                                                                                          | Item |                                                                                                 | Required Qty |     | Qty/PU                         | Part no.         |
|--------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------|--------------|-----|--------------------------------|------------------|
|                                                                                                        |      |                                                                                                 | 3 U          | 6 U |                                |                  |
| Board support, die-cast zinc, with thread M2.5, for front panel and PCB fixing                         | 5    | <br>04608074  | 1            | —   | 1 piece (SPQ 10) <sup>1)</sup> | <b>60807-181</b> |
| Board support, plastic, PBT, UL 94 V-0, grey, with recess for hexagon nut M2.5, for fixing front panel | 5a   | <br>06702057 | 1            | —   | 1 piece (SPQ 10) <sup>1)</sup> | <b>60807-183</b> |
| Plastic sleeve, for form hole 5.9 x 3.3 PA, UL 90 V-2, grey                                            | 8    | <br>82B45933 | 1            | —   | 100                            | <b>21100-464</b> |
| Metal sleeve, for form hole 5.9 x 3.3, press-in Stainless steel                                        | 8a   | <br>AZA43239 | 1            | —   | 100                            | <b>21100-662</b> |
| Pozidrive/slotted collar screw M2.5 x 11, St, nickel-plated                                            | 9    | <br>AZA46586 | 2            | 2   | 100                            | <b>21100-748</b> |
| Pozidrive/slotted collar screw M2.5 x 12,3, St, nickel-plated                                          | 9a   | <br>AZA46586 | 2            | 2   | 100                            | <b>21101-101</b> |
| Raised Pozidrive countersunk screw M2.5 x 8, St, nickel-plated                                         | 11   | <br>06702056 | 1            | —   | 100                            | <b>21100-429</b> |
| Washer 2.7, nickel-plated steel                                                                        | 13   | <br>AZA46586 | 2            | 2   | 100                            | <b>21100-721</b> |
| Pozidrive panhead screw M2,5 x 10, St, nickel-plated For item 5                                        | 14   | <br>06702057 | 2            | 2   | 100                            | <b>21101-220</b> |
| Pan head screw, self-tapping 2.5 x 8, St, zinc-plated For item 5a                                      | 14a  | <br>06702057 | 1            | —   | 100                            | <b>21100-710</b> |
| Hexagon nut M2.5, nickel-plated steel For item 5a                                                      | 15   | <br>AZA43239 | 3            | 6   | 100                            | <b>21100-144</b> |

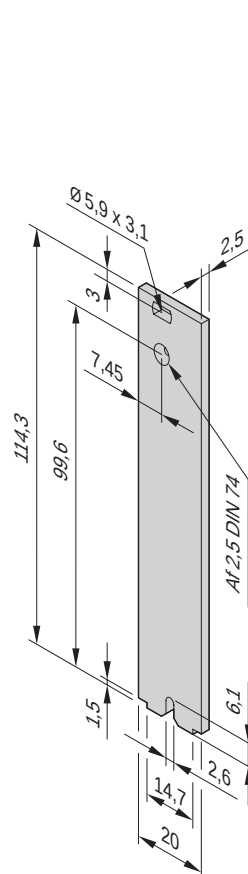
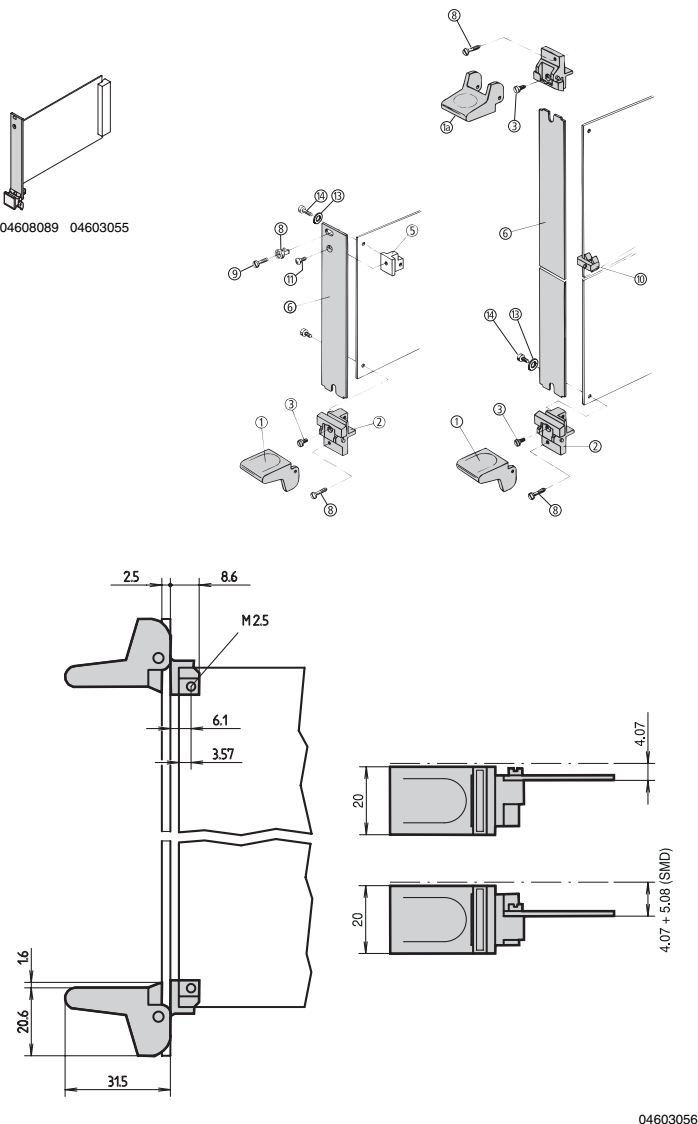
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple



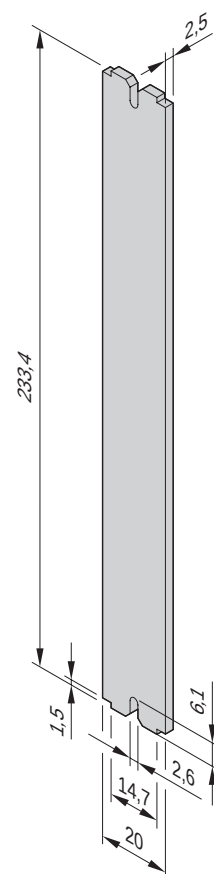
### Plug-in units with extraction handles in key form 1

| Dimension drawings | Extraction handles/front panels in key form |
|--------------------|---------------------------------------------|
|--------------------|---------------------------------------------|

| Dimension drawings | Extraction handles/front panels in key form |
|--------------------|---------------------------------------------|
|--------------------|---------------------------------------------|



3 U



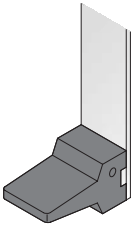
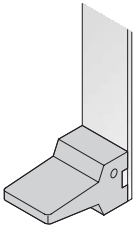
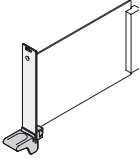
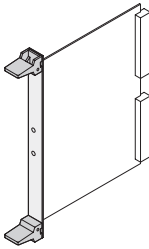
6 U

## Plug-in units with extraction handles in key form 2

### Individual components

### Extraction handles in key form 2

#### Order Information

|                                                                                                 | Extraction handle                                                                                              |                                                                                               | Front panel                                                                                   |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                                                                                 | black                                                                                                          | grey                                                                                          |                                                                                               |
|                                                                                                 | <br>04608104                  | <br>04608105 | <br>04608106 |
|                                                                                                 | Extraction handle, PBT, UL 90 V-0; bearing, Zn die-cast, nickel-plated; incl. assembly kit for handle mounting |                                                                                               | Al, 2.5 mm; available on request                                                              |
|                                                                                                 | 1 piece (SPQ 10) <sup>1)</sup>                                                                                 | 1 piece (SPQ 10) <sup>1)</sup>                                                                |                                                                                               |
| <br>04608124 | <b>3 U Height</b>                                                                                              |                                                                                               |                                                                                               |
|                                                                                                 | top                                                                                                            |                                                                                               |                                                                                               |
|                                                                                                 | —                                                                                                              | —                                                                                             | —                                                                                             |
|                                                                                                 | bottom                                                                                                         |                                                                                               |                                                                                               |
|                                                                                                 | <b>20808-137</b>                                                                                               | <b>20808-135</b>                                                                              | —                                                                                             |
| <br>04608125 | <b>6 U Height</b>                                                                                              |                                                                                               |                                                                                               |
|                                                                                                 | top                                                                                                            |                                                                                               |                                                                                               |
|                                                                                                 | <b>20808-137</b>                                                                                               | <b>20808-135</b>                                                                              | —                                                                                             |
|                                                                                                 | bottom                                                                                                         |                                                                                               |                                                                                               |
|                                                                                                 | <b>20808-137</b>                                                                                               | <b>20808-135</b>                                                                              | —                                                                                             |
| Dimension drawings see page                                                                     | 7.53                                                                                                           | 7.53                                                                                          | 7.53                                                                                          |

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity; please order at least the SPQ quantity or a multiple

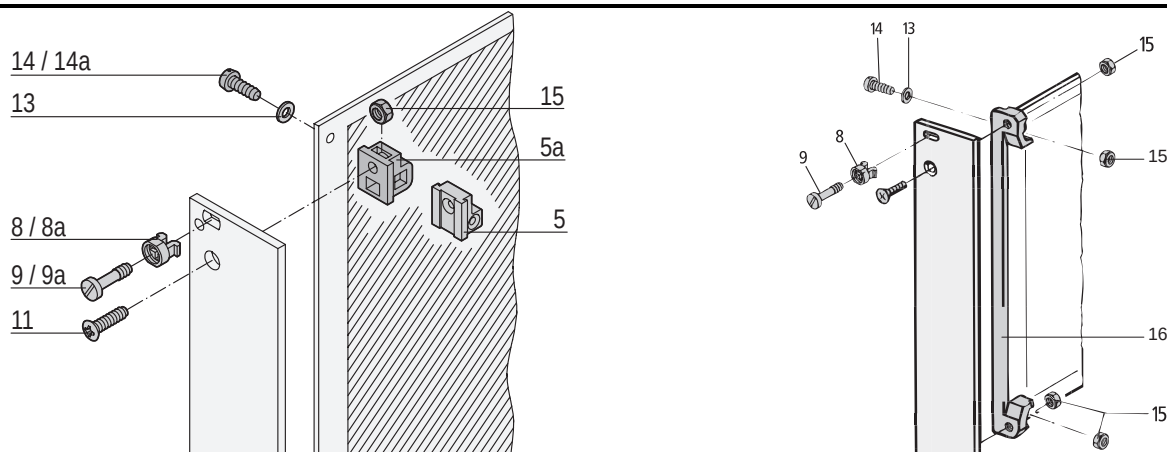
Part no. includes one packing unit (PU); delivery is exclusively made in PU

## Plug-in units with extraction handles in key form 2

### Individual components

### Assembly kits for extraction handles in key form 2

#### Assembly kits



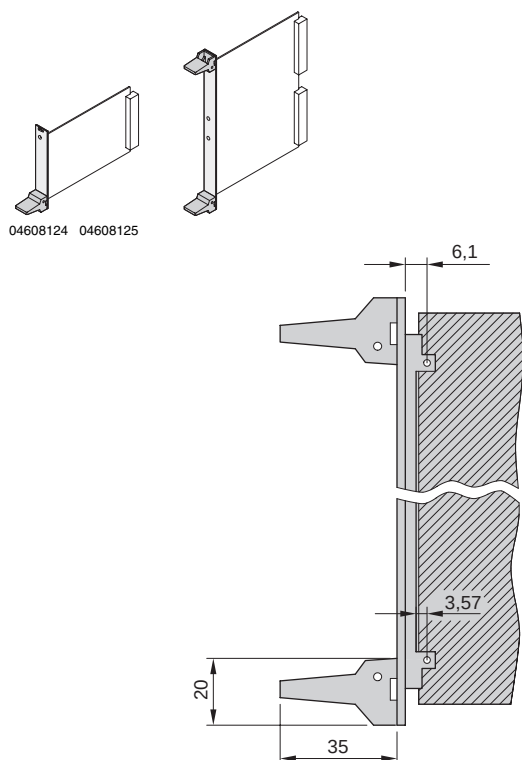
| Assembly kits                                                                                                        | Item |                                                                                                 | Required Qty |     | Qty/PU                         | Part no.         |
|----------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------|--------------|-----|--------------------------------|------------------|
|                                                                                                                      |      |                                                                                                 | 3 U          | 6 U |                                |                  |
| Board support, die-cast zinc, with thread M2.5, for front panel and PCB fixing;                                      | 5    | <br>04608074  | 1            | 2   | 1 piece (SPQ 10) <sup>1)</sup> | <b>60807-181</b> |
| Board support, plastic, PBT, UL 94 V-0, grey, with recess for hexagon nut M2.5, for fixing front panel               | 5a   | <br>06702057 | 1            | 2   | 1 piece (SPQ 10) <sup>1)</sup> | <b>60807-183</b> |
| Plastic sleeve, for form hole 5.9 x 3.3, PA, UL 90 V-2, grey                                                         | 8    | <br>aza45933 | 1            | —   | 100                            | <b>21100-464</b> |
| Metal sleeve, for form hole 5.9 x 3.3, press-in Stainless steel                                                      | 13   | <br>AZA43239 | 1            | —   | 100                            | <b>21100-662</b> |
| Pozidrive/slotted collar screw M2.5 x 11, St, nickel-plated                                                          | 9    | <br>AZA46586 | 2            | 2   | 100                            | <b>21100-748</b> |
| Pozidrive/slotted collar screw M2.5 x 12,3, St, nickel-plated                                                        | 9a   | <br>AZA46586 | 2            | 2   | 100                            | <b>21101-101</b> |
| Raised Pozidrive countersunk screw M2.5 x 8, St, nickel-plated                                                       | 11   | <br>06702056 | 1            | —   | 100                            | <b>21100-429</b> |
| Washer 2.7, nickel-plated steel                                                                                      | 13   | <br>AZA46586 | 2            | 2   | 100                            | <b>21100-721</b> |
| Pozidrive panhead screw M2,5 x 10, St, nickel-plated For item 5                                                      | 14   | <br>06702057 | 2            | 2   | 100                            | <b>21101-220</b> |
| Pan head screw, self-tapping 2.5 x 8, St, zinc-plated For item 5a                                                    | 14a  | <br>06702057 | 1            | —   | 100                            | <b>21100-710</b> |
| Hexagon nut M2.5, nickel-plated steel For item 5a                                                                    | 15   | <br>AZA43239 | 3            | —   | 100                            | <b>21100-144</b> |
| Printed board bracket 4 clearance holes for front panel/PCB fixing, 4 recesses for hexagon nuts; PBT, UL 94 V-0, red | 16   |                                                                                                 | 1            | 2   | 1 piece (SPQ 10) <sup>1)</sup> | <b>60807-011</b> |

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

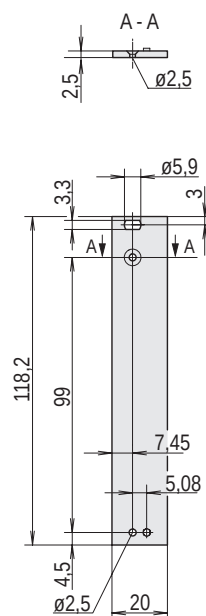
## Plug-in units with extraction handles in key form 2

### Dimension drawings

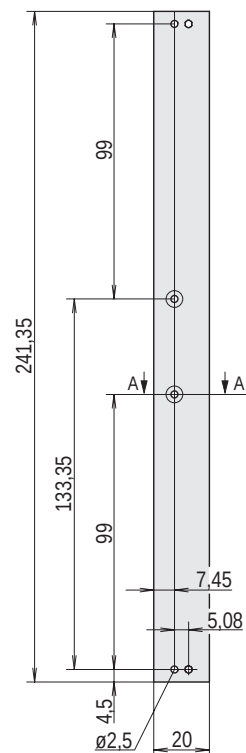
### Handles/front panels in key form 2



bga42573



3 U



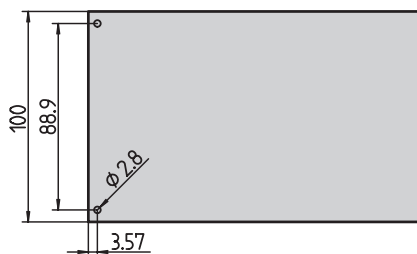
6 U

bga42578

### Dimension drawings

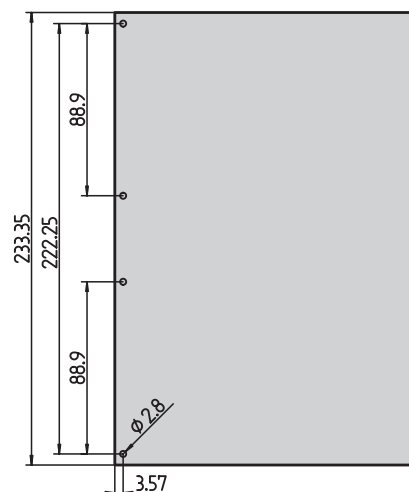
### Drill hole dimensions on PCB for key form 2

3 U



bga43076

6 U



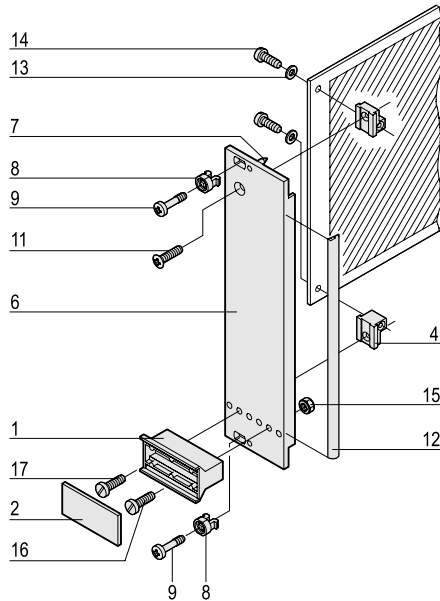
bga43077

# Plug-in units with static cantilever handles

## Kits

## Plug-in unit with static cantilever handle

3 U



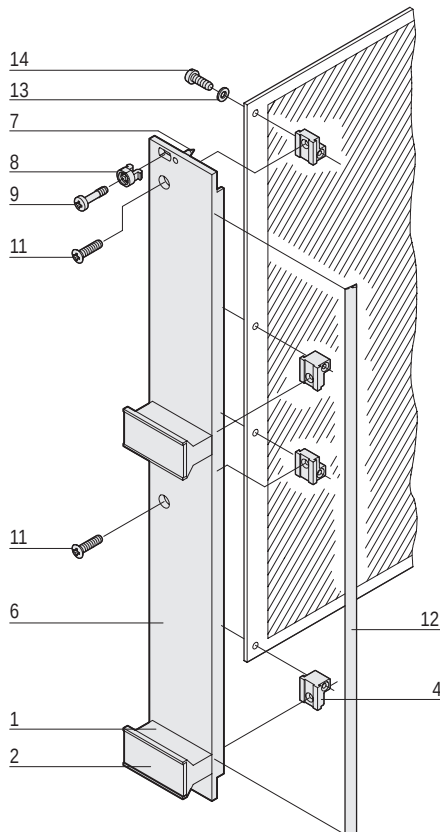
- Front panel, U-profile, shielded
- Handle without extraction function

### Delivery comprises

| Item | Qty | 3 U | 6 U | Description                                                                                       |
|------|-----|-----|-----|---------------------------------------------------------------------------------------------------|
| 1    | 1   | 2   |     | Plastic handle, cantilever shape, PPE, grey                                                       |
| 2    | 1   | 2   |     | Identification plate, Al, 1.5 mm, anodised, cut edges plain                                       |
| 4    | 2   | 4   |     | Board support, die-cast zinc                                                                      |
| 6    | 1   | 1   |     | Front panel, U profile, for cantilever shaped handle, front anodised, rear conductive             |
| 7    | 2   | 2   |     | Alignment pin, pressed-in, stainless steel                                                        |
| 8    | 2   | 2   |     | Sleeve, PA, grey, up to 7 HP front panel width                                                    |
| 8    | 4   | 4   |     | Sleeve, PA, grey, from 8 HP front panel width                                                     |
| 9    | 2   | 2   |     | Collar screw, Pozidrive/slot, St, nickel-plated, M2.5 × 11 and 12.3, front panel width up to 7 HP |
| 9    | 4   | 4   |     | Collar screw, Pozidrive/slot, St, nickel-plated, M2.5 × 11 and 12.3, front panel width from 8 HP  |
| 11   | 1   | 2   |     | Raised countersunk screw, St, nickel-plated, M2.5 × 8                                             |
| 12   | 1   | 1   |     | EMC sealing (textile)                                                                             |
| 13   | 2   | 4   |     | Washer, A2.7                                                                                      |
| 14   | 2   | 4   |     | Pozidrive flathead screw, St, nickel-plated, M2.5 × 10                                            |
| 15   | 1   | 2   |     | Hexagon nut, St, nickel-plated, M2.5                                                              |
| 16   | 1   | 2   |     | Pozidrive flathead screw, St, nickel-plated, M2.5 × 12                                            |
| 17   | 1   | 2   |     | Pozidrive flathead screw, St, nickel-plated, M2.5 × 16                                            |

04602062

6 U



### Order Information

| Width | 3 U              | 6 U              |
|-------|------------------|------------------|
| HP    | Part no.         | Part no.         |
| 3     | <b>20848-663</b> | <b>20848-671</b> |
| 4     | <b>20848-664</b> | <b>20848-672</b> |
| 5     | <b>20848-665</b> | <b>20848-673</b> |
| 6     | <b>20848-666</b> | <b>20848-674</b> |
| 7     | <b>20848-667</b> | <b>20848-675</b> |
| 8     | <b>20848-668</b> | <b>20848-676</b> |
| 10    | <b>20848-669</b> | <b>20848-677</b> |
| 12    | <b>20848-670</b> | <b>20848-678</b> |



For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

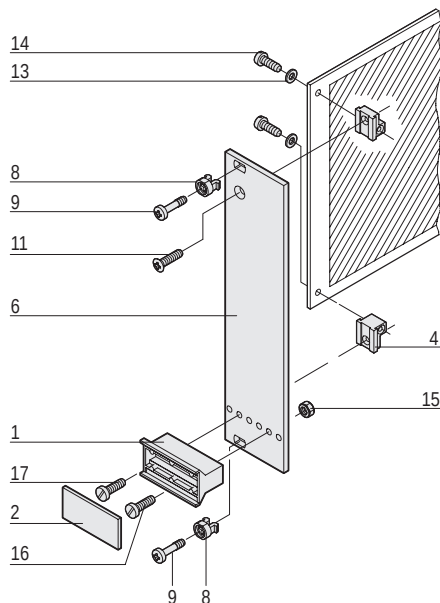
04602063

# Plug-in units with static cantilever handles

## Kits

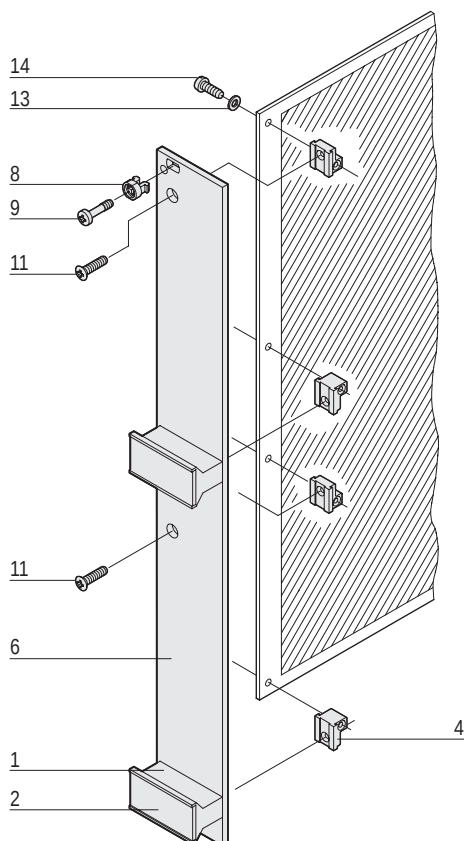
## Plug-in unit with static cantilever handle

3 U



04602064

6 U



04602065

- Front panel unshielded
- Handle without extraction function

### Delivery comprises

| Item | Qty | 3 U | 6 U | Description                                                                                       |
|------|-----|-----|-----|---------------------------------------------------------------------------------------------------|
| 1    | 1   | 2   |     | Plastic handle, cantilever shape, PPE, grey                                                       |
| 2    | 1   | 2   |     | Identification plate, Al, 1.5 mm, anodised, cut edges plain                                       |
| 4    | 2   | 4   |     | Board support, die-cast zinc                                                                      |
| 6    | 1   | 1   |     | Front panel for cantilever shaped handle, front anodised, rear iridescent green chromated         |
| 8    | 2   | 2   |     | Sleeve, PA, grey, up to 7 HP front panel width                                                    |
| 8    | 4   | 4   |     | Sleeve, PA, grey, from 8 HP front panel width                                                     |
| 9    | 2   | 2   |     | Collar screw, Pozidrive/slot, St, nickel-plated, M2.5 × 11 and 12.3, front panel width up to 7 HP |
| 9    | 4   | 4   |     | Collar screw, Pozidrive/slot, St, nickel-plated, M2.5 × 11 and 12.3, front panel width from 8 HP  |
| 11   | 1   | 2   |     | Raised countersunk screw, St, nickel-plated, M2.5 × 8                                             |
| 13   | 2   | 4   |     | Washer, A2.7                                                                                      |
| 14   | 2   | 4   |     | Pozidrive flathead screw, St, nickel-plated, M2.5 × 8                                             |
| 15   | 1   | 2   |     | Hexagon nut, St, nickel-plated, M2.5                                                              |
| 16   | 1   | 2   |     | Pozidrive flathead screw, St, nickel-plated, M2.5 × 12                                            |
| 17   | 1   | 2   |     | Pozidrive flathead screw, St, nickel-plated, M2.5 × 16                                            |

### Order Information

| Width | 3 U              | 6 U              |
|-------|------------------|------------------|
| HP    | Part no.         | Part no.         |
| 3     | <b>20818-017</b> | <b>20809-507</b> |
| 4     | <b>20818-018</b> | <b>20818-025</b> |
| 5     | <b>20818-019</b> | <b>20818-026</b> |
| 6     | <b>20818-020</b> | <b>20818-027</b> |
| 7     | <b>20818-021</b> | <b>20818-162</b> |
| 8     | <b>20818-022</b> | <b>20818-028</b> |
| 10    | <b>20818-023</b> | <b>20818-029</b> |
| 12    | <b>20818-024</b> | <b>20818-120</b> |



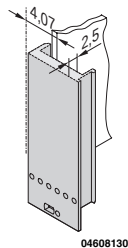
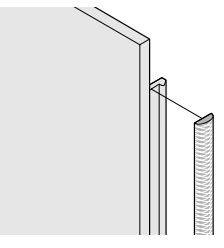
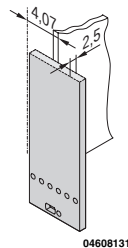
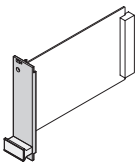
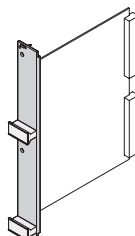
For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

## Plug-in units with static cantilever handles

### Individual components

### Front panels for static cantilever handles

#### Order Information

|                                                                                                     |          | Front panel, U-profile, shieldable                                                                                                                                                                |                                                                                                                                                                                                                                                                     |               | Front panel unshielded                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                     |          | Front panel, U-profile                                                                                                                                                                            | EMC textile gasket                                                                                                                                                                                                                                                  |               |                                                                                                                                                                                        |
|                                                                                                     |          |  <p>04608130</p> <p>Al extrusion, front anodised, rear conductive, alignment pin pressed-in, stainless steel</p> |  <p>bga45760</p> <p>Always fixed laterally on the front panel, in the groove of the profile, textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0</p> |               |  <p>04608131</p> <p>Front panel, Al 2.5 mm; front anodised; rear side iridescent green chromated</p> |
|                                                                                                     | Width HP | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                                                                                     | PU 10 pieces                                                                                                                                                                                                                                                        | PU 100 pieces | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                                                                          |
| 3 U Height                                                                                          |          |                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                     |               |                                                                                                                                                                                        |
|  <p>04608126</p> | 3        | 30849-086                                                                                                                                                                                         | 21101-853                                                                                                                                                                                                                                                           | 21101-854     | 30847-602                                                                                                                                                                              |
|                                                                                                     | 4        | 30849-087                                                                                                                                                                                         |                                                                                                                                                                                                                                                                     |               | 30847-603                                                                                                                                                                              |
|                                                                                                     | 5        | 30849-088                                                                                                                                                                                         |                                                                                                                                                                                                                                                                     |               | 30847-604                                                                                                                                                                              |
|                                                                                                     | 6        | 30849-089                                                                                                                                                                                         |                                                                                                                                                                                                                                                                     |               | 30847-605                                                                                                                                                                              |
|                                                                                                     | 7        | 30849-090                                                                                                                                                                                         |                                                                                                                                                                                                                                                                     |               | 30847-606                                                                                                                                                                              |
|                                                                                                     | 8        | 30849-091                                                                                                                                                                                         |                                                                                                                                                                                                                                                                     |               | 30847-607                                                                                                                                                                              |
|                                                                                                     | 10       | 30849-092                                                                                                                                                                                         |                                                                                                                                                                                                                                                                     |               | 30847-608                                                                                                                                                                              |
|                                                                                                     | 12       | 30849-093                                                                                                                                                                                         |                                                                                                                                                                                                                                                                     |               | 30847-609                                                                                                                                                                              |
| 6 U Height                                                                                          |          |                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                     |               |                                                                                                                                                                                        |
|  <p>04608127</p> | 3        | 30849-097                                                                                                                                                                                         | 21101-855                                                                                                                                                                                                                                                           | 21101-856     | 30847-625                                                                                                                                                                              |
|                                                                                                     | 4        | 30849-098                                                                                                                                                                                         |                                                                                                                                                                                                                                                                     |               | 30847-626                                                                                                                                                                              |
|                                                                                                     | 5        | 30849-099                                                                                                                                                                                         |                                                                                                                                                                                                                                                                     |               | 30847-627                                                                                                                                                                              |
|                                                                                                     | 6        | 30849-100                                                                                                                                                                                         |                                                                                                                                                                                                                                                                     |               | 30847-628                                                                                                                                                                              |
|                                                                                                     | 7        | 30849-101                                                                                                                                                                                         |                                                                                                                                                                                                                                                                     |               | —                                                                                                                                                                                      |
|                                                                                                     | 8        | 30849-102                                                                                                                                                                                         |                                                                                                                                                                                                                                                                     |               | 30847-630                                                                                                                                                                              |
|                                                                                                     | 10       | 30849-103                                                                                                                                                                                         |                                                                                                                                                                                                                                                                     |               | 30847-631                                                                                                                                                                              |
|                                                                                                     | 12       | 30849-104                                                                                                                                                                                         |                                                                                                                                                                                                                                                                     |               | —                                                                                                                                                                                      |
| Dimension drawings see page                                                                         |          | 7.60                                                                                                                                                                                              |                                                                                                                                                                                                                                                                     |               | 7.60                                                                                                                                                                                   |

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

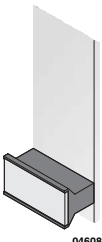
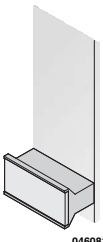
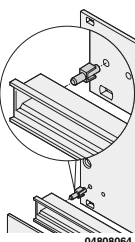
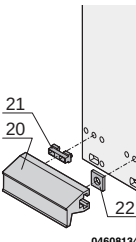
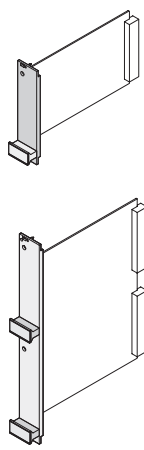
Part no. includes one packing unit (PU); delivery is exclusively made in PU

## Plug-in units with static cantilever handles

Individual  
components

Assembly kits for static cantilever handles

### Order Information

|                                                                                                          | Plastic handle in cantilever form                                                                                                                                                     |                                                                                               |                                                                                               | Al profile handle                                                                                                                              |                                                                                                 |                                                                                                 |
|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|                                                                                                          | Cantilever handle black                                                                                                                                                               | Cantilever handle grey                                                                        | Fixing clip                                                                                   | Handle item 20                                                                                                                                 | Fixing part for aluminium profile handle item 21                                                | Square nut item 22                                                                              |
|                                                                                                          | <br>04608132                                                                                         | <br>04608133 | <br>04608064 | <br>04608134                                                 | <br>04608135 | <br>06707050 |
|                                                                                                          | Handle: PPE, UL 94 V-1;<br>identification plate: Al, 1.5 mm,<br>anodised, cut edges plain;<br>please order clip separately;<br>required qty:<br>1 handle for 3 U<br>2 handles for 6 U |                                                                                               | Clip, PPE,<br>UL 94 V-0,<br>black,<br>mounting aid<br>from 5 HP to<br>42 HP                   | Al extrusion,<br>anodised;<br>fixing part,<br>POM, black;<br>square nut,<br>St, nickel-plated;<br>at length of<br>1000 mm only Al<br>extrusion | Fixing part,<br>POM, black                                                                      | DIN 562, M2.5,<br>St, nickel-plated                                                             |
| Width<br>HP                                                                                              | 1 piece<br>(SPQ 5) <sup>1)</sup>                                                                                                                                                      | 1 piece<br>(SPQ 5) <sup>1)</sup>                                                              | PU 100 pieces                                                                                 | 1 piece<br>(SPQ 10) <sup>1)</sup>                                                                                                              | PU 100 pieces                                                                                   | PU 100 pieces                                                                                   |
| <b>3 / 6 U Height</b>                                                                                    |                                                                                                                                                                                       |                                                                                               |                                                                                               |                                                                                                                                                |                                                                                                 |                                                                                                 |
| <br>04608128 04608129 | 3                                                                                                                                                                                     | <b>20809-396</b>                                                                              | <b>20809-294</b>                                                                              | <b>21101-239</b>                                                                                                                               | <b>20809-281</b>                                                                                | <b>21100-476</b>                                                                                |
|                                                                                                          | 4                                                                                                                                                                                     | <b>20809-397</b>                                                                              | <b>20809-295</b>                                                                              |                                                                                                                                                | <b>20809-282</b>                                                                                |                                                                                                 |
|                                                                                                          | 5                                                                                                                                                                                     | <b>20808-080</b>                                                                              | <b>20808-003</b>                                                                              |                                                                                                                                                | <b>20809-283</b>                                                                                |                                                                                                 |
|                                                                                                          | 6                                                                                                                                                                                     | <b>20808-081</b>                                                                              | <b>20808-060</b>                                                                              |                                                                                                                                                | <b>20809-284</b>                                                                                |                                                                                                 |
|                                                                                                          | 7                                                                                                                                                                                     | <b>20808-082</b>                                                                              | <b>20808-061</b>                                                                              |                                                                                                                                                | <b>20809-285</b>                                                                                |                                                                                                 |
|                                                                                                          | 8                                                                                                                                                                                     | <b>20808-083</b>                                                                              | <b>20808-062</b>                                                                              |                                                                                                                                                | <b>20809-286</b>                                                                                |                                                                                                 |
|                                                                                                          | 9                                                                                                                                                                                     | <b>20808-084</b>                                                                              | <b>20808-063</b>                                                                              |                                                                                                                                                | <b>20809-287</b>                                                                                |                                                                                                 |
|                                                                                                          | 10                                                                                                                                                                                    | <b>20808-085</b>                                                                              | <b>20808-004</b>                                                                              |                                                                                                                                                | <b>20809-288</b>                                                                                |                                                                                                 |
|                                                                                                          | 12                                                                                                                                                                                    | <b>20808-086</b>                                                                              | <b>20808-064</b>                                                                              |                                                                                                                                                | <b>20809-289</b>                                                                                |                                                                                                 |
|                                                                                                          | 14                                                                                                                                                                                    | <b>20808-087</b>                                                                              | <b>20808-065</b>                                                                              |                                                                                                                                                | <b>20809-290</b>                                                                                |                                                                                                 |
|                                                                                                          | 21                                                                                                                                                                                    | <b>20808-088</b>                                                                              | <b>20808-066</b>                                                                              |                                                                                                                                                | <b>20809-291</b>                                                                                |                                                                                                 |
|                                                                                                          | 28                                                                                                                                                                                    | <b>20808-089</b>                                                                              | <b>20808-067</b>                                                                              |                                                                                                                                                | <b>20809-292</b>                                                                                |                                                                                                 |
|                                                                                                          | 40                                                                                                                                                                                    | <b>20808-090</b>                                                                              | <b>20808-009</b>                                                                              |                                                                                                                                                | —                                                                                               |                                                                                                 |
|                                                                                                          | 42                                                                                                                                                                                    | <b>20808-091</b>                                                                              | <b>20808-068</b>                                                                              |                                                                                                                                                | <b>20809-293</b>                                                                                |                                                                                                 |
|                                                                                                          | 61                                                                                                                                                                                    | <b>20808-092</b>                                                                              | <b>20808-012</b>                                                                              |                                                                                                                                                | —                                                                                               |                                                                                                 |
| 1000<br>mm                                                                                               | —                                                                                                                                                                                     | —                                                                                             |                                                                                               |                                                                                                                                                | <b>30809-428</b>                                                                                |                                                                                                 |
| Dimension drawings see page                                                                              | 7.61                                                                                                                                                                                  | 7.61                                                                                          |                                                                                               | 7.61                                                                                                                                           | 7.61                                                                                            | 7.61                                                                                            |

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

Part no. includes one packing unit (PU); delivery is exclusively made in PU



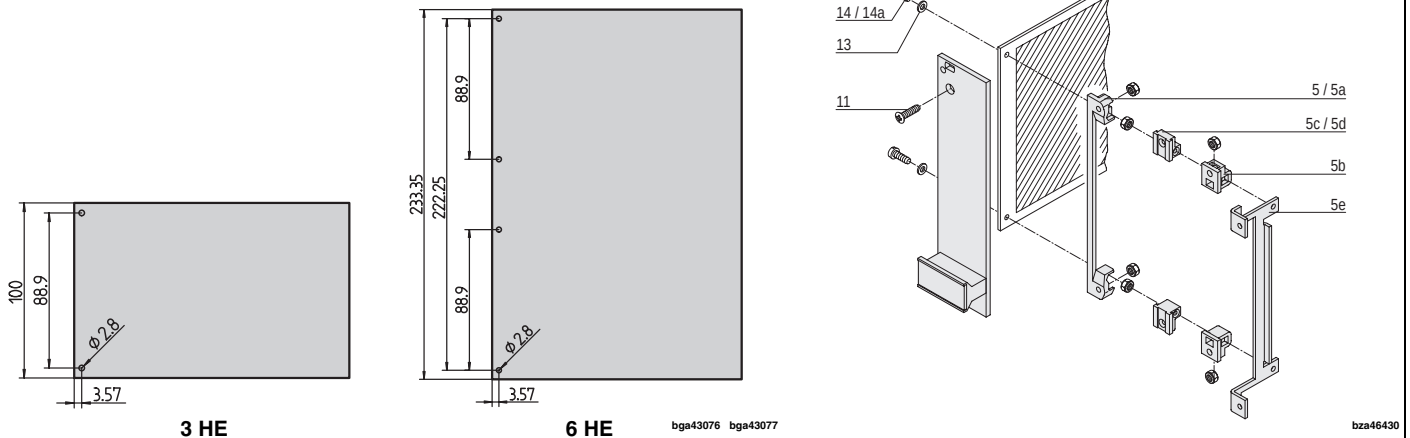
# Plug-in units with static cantilever handles

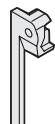
## Individual components

## Board support for static cantilever handles

### Assembly kits

#### Drill hole dimensions on PCB



| Assembly kits                                                                                                                                                                                                                                 | Item |                                                                                                 | Required Qty |     | Qty/PU                         | Part no.         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------|--------------|-----|--------------------------------|------------------|
|                                                                                                                                                                                                                                               |      |                                                                                                 | 3 U          | 6 U |                                |                  |
| Printed board bracket<br>4 clearance holes for front panel/PCB fixing,<br>4 recesses for hexagon nuts; PBT, UL 94 V-0, red                                                                                                                    | 5    |               | 1            | 2   | 1 piece (SPQ 10) <sup>1)</sup> | <b>60807-011</b> |
| Printed board bracket<br>4 threads M2.5 for front panel/PCB fixing,<br>PBT, UL 94 V-0, grey, 1 piece                                                                                                                                          | 5a   | <br>06702057 | 1            | 2   | 1 piece (SPQ 10) <sup>1)</sup> | <b>60807-211</b> |
| Printed board bracket<br>Clearance hole for front panel fixing, with recess for hexagon nut,<br>drill hole for self-tapping screw for PCB fixing, PBT, UL 94 V-0,<br>grey, 1 piece                                                            | 5b   | <br>06702057 | 2            | 4   | 1 piece (SPQ 10) <sup>1)</sup> | <b>60807-183</b> |
| Printed board bracket<br>2 threads M2.5 for front panel/PCB fixing, die-cast zinc, 1 piece                                                                                                                                                    | 5c   | <br>04608074 | 2            | 4   | 1 piece (SPQ 10) <sup>1)</sup> | <b>60807-181</b> |
| Printed board bracket<br>Thread M2.5 for front panel fixing, clearance hole for PCB fixing,<br>die-cast zinc, 1 piece                                                                                                                         | 5d   | <br>04608074 | 2            | 4   | 1 piece (SPQ 10) <sup>1)</sup> | <b>60807-203</b> |
| Printed board bracket<br>4 M2.5 threads for fixing of front panel/PCB for recessed mounting<br>of PCB (20 mm), mounting depth 192.24 mm, St, zinc-plated;<br>not for europacPRO, multipacPRO, ratiopacPRO, propacPRO or<br>compacPRO, 1 piece | 5e   | <br>AZA46586 | 1            | 2   | 1 piece (SPQ 10) <sup>1)</sup> | <b>30808-871</b> |

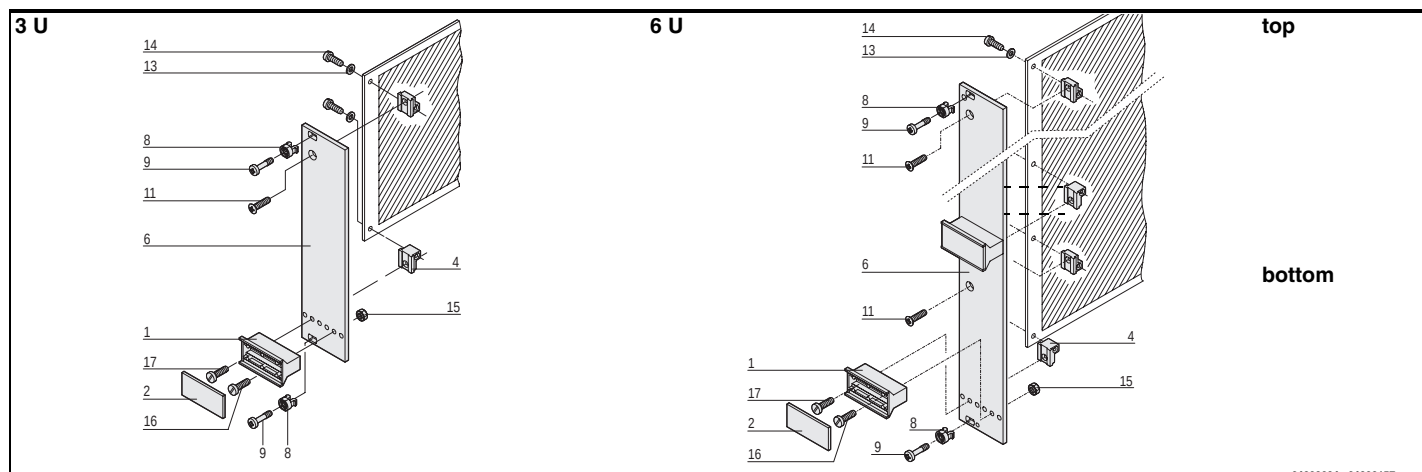
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# Plug-in units with static cantilever handles

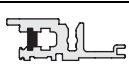
## Individual components

## Assembly kits for static cantilever handles

### Assembly kits



04602064 04608157

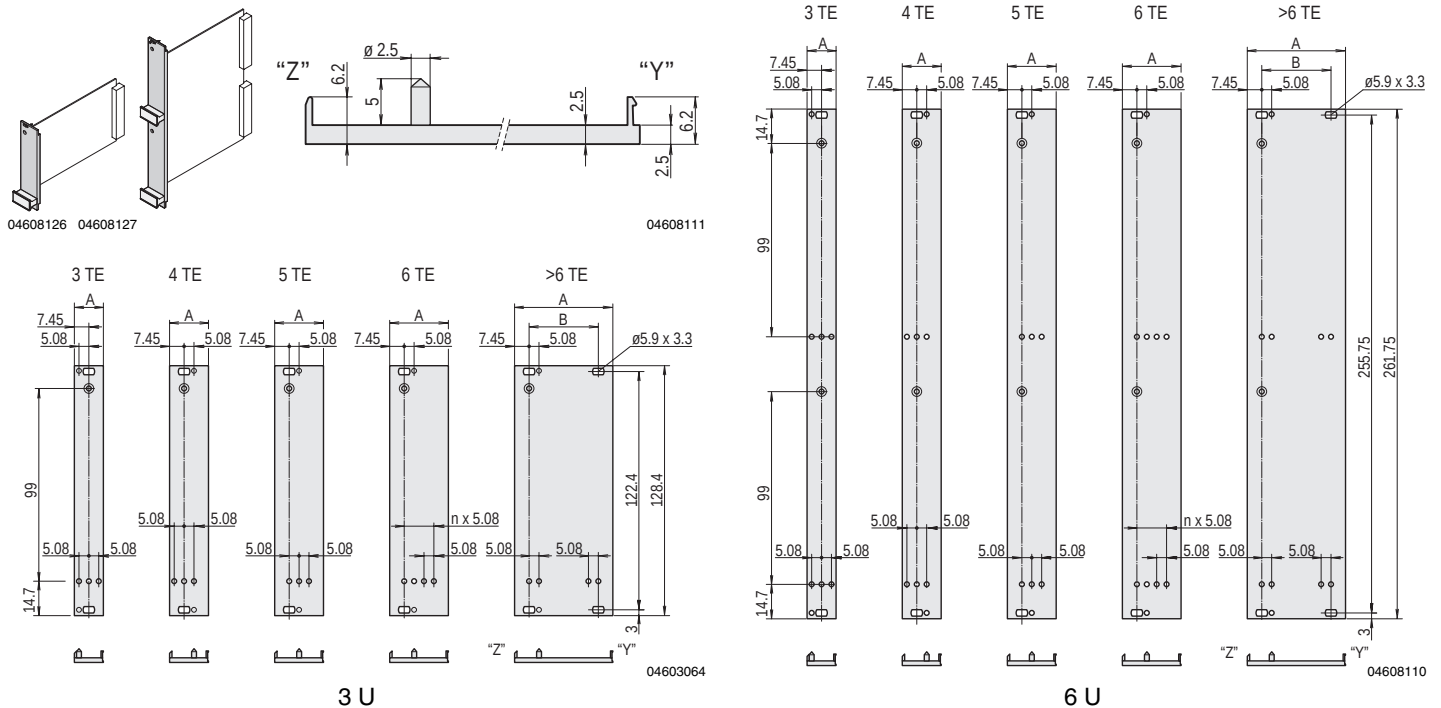
| Assembly kits                                                                                  | Item |                                                                                                 | Required Qty |      |      |      | Qty/PU | Part no.  |
|------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------|--------------|------|------|------|--------|-----------|
|                                                                                                |      |                                                                                                 | 3 U          |      | 6 U  |      |        |           |
|                                                                                                |      |                                                                                                 | <8HP         | ≥8HP | <8HP | ≥8HP |        |           |
| Plastic sleeve, for form hole 5.9 x 3.3<br>PA, UL 90 V-2, grey                                 | 8    | <br>aza45933  | —            | —    | —    | —    | 100    | 21100-464 |
| Metal sleeve, for form hole 5.9 x 3.3, press-in<br>Stainless steal                             | 8a   | <br>AZA43239 | —            | —    | —    | —    | 100    | 21100-662 |
| Metal sleeve, for form hole 5.9 x 3.3, to press-in<br>Nickel-plated brass                      | 8b   | <br>AZA43239 | —            | —    | —    | —    | 100    | 21100-660 |
| Pozidrive/slotted collar screw<br>M2.5 × 11, St, nickel-plated<br>not for europacPRO and cases | 9    | <br>AZA46586 | —            | —    | —    | —    | 100    | 21100-748 |
| Collar screw with Pozidrive/slot<br>M2.5 × 12,3, St, nickel-plated                             | 9a   | <br>AZA46586 | —            | —    | —    | —    | 100    | 21101-101 |
| Raised Pozidrive countersunk screw<br>M2.5 × 8, St, nickel-plated                              | 11   | <br>06702056 | —            | —    | —    | —    | 100    | 21100-429 |
| Washer<br>2.7, nickel-plated steel                                                             | 13   | <br>AZA46586 | —            | —    | —    | —    | 100    | 21100-721 |
| Pozidrive panhead screw<br>M2.5 × 8, nickel-plated steel<br>if using item 13                   | 14   | <br>06702057 | —            | —    | —    | —    | 100    | 21101-069 |
| Pan head screw, self-tapping<br>2.5 x 8, St, zinc-plated<br>if using item 5a                   | 14a  | <br>06702057 | —            | —    | —    | —    | 100    | 21100-710 |
| Hexagon nut<br>M2.5, nickel-plated steel<br>if using item 5a                                   | 15   | <br>AZA43239 | —            | —    | —    | —    | 100    | 21100-144 |
| Panhead Pozidrive countersunk screw<br>M2.5 × 12, nickel-plated steel                          | 16   | <br>06702057 | —            | —    | —    | —    | 100    | 21101-221 |
| Panhead Pozidrive countersunk screw<br>M2.5 × 16, nickel-plated steel                          | 17   | <br>06702057 | —            | —    | —    | —    | 100    | 21101-222 |

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## Plug-in units with static cantilever handles

### Dimension drawings

### Front panels, U-profile shieldable for static cantilever handles

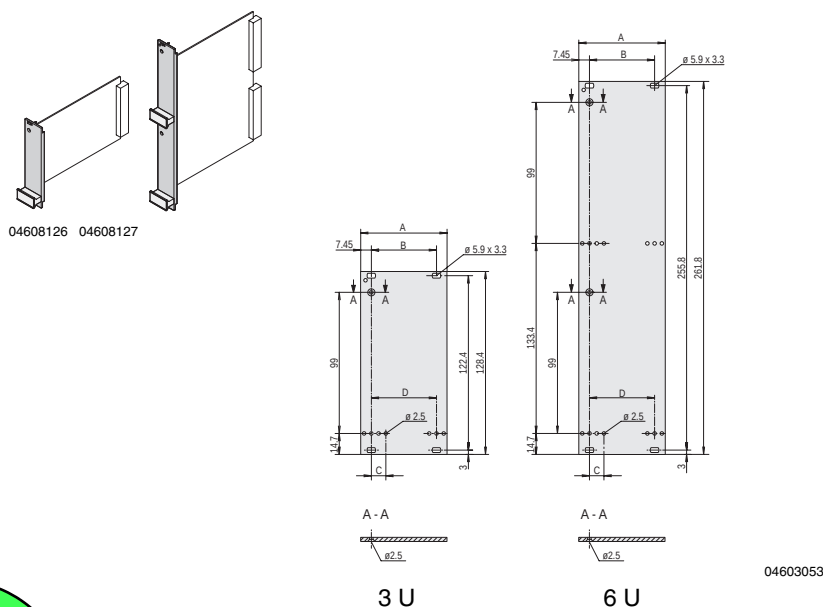


Dimensions table

| Width<br>HP | A<br>mm | B<br>mm |
|-------------|---------|---------|
| 3           | 14.90   | -       |
| 4           | 19.98   | -       |
| 5           | 25.06   | -       |
| 6           | 30.14   | -       |
| 7           | 35.22   | -       |
| 8           | 40.30   | 25.40   |
| 10          | 50.46   | 35.56   |
| 12          | 60.62   | 45.72   |

### Dimension drawings

### Front panels for static cantilever handles



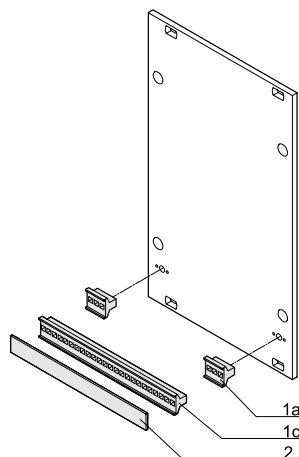
Dimensions table

| Width<br>HP | A<br>mm | B<br>mm | C<br>mm | D<br>mm |
|-------------|---------|---------|---------|---------|
| 3           | 14.90   | -       | -       | -       |
| 4           | 19.98   | -       | -       | -       |
| 5           | 25.06   | -       | 10.16   | -       |
| 6           | 30.14   | -       | -       | 15.24   |
| 7           | 35.22   | -       | -       | 20.32   |
| 8           | 40.30   | 25.40   | -       | 25.40   |
| 10          | 50.46   | 35.56   | -       | 35.56   |
| 12          | 60.62   | 45.72   | -       | 45.72   |

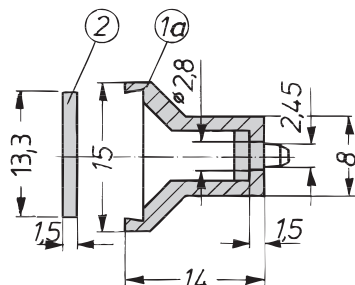
## Plug-in units with static cantilever handles

### Dimension drawings

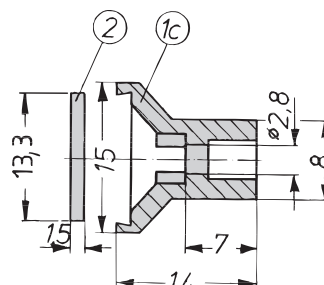
### Static plastic cantilever handles



bga46447



a4-328a



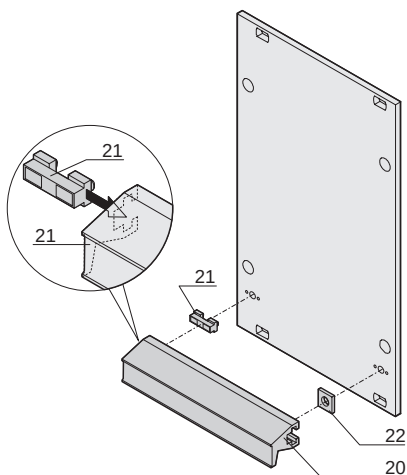
a4-328c

### Dimensions table

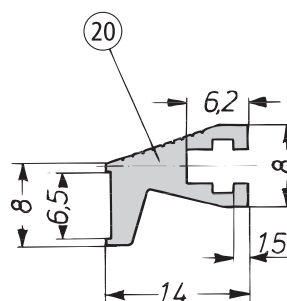
| Pos. | Width<br>HP | Width<br>mm |
|------|-------------|-------------|
| 1a   | 3           | 13.8        |
| 1a   | 4           | 18.9        |
| 1c   | 5           | 24.0        |
| 1c   | 6           | 29.0        |
| 1c   | 7           | 34.1        |
| 1c   | 8           | 39.2        |
| 1c   | 9           | 44.3        |
| 1c   | 10          | 49.4        |
| 1c   | 12          | 59.6        |
| 1c   | 14          | 69.7        |
| 1c   | 21          | 105.2       |
| 1c   | 28          | 140.8       |
| 1c   | 40          | 201.8       |
| 1c   | 42          | 212.0       |
| 1c   | 61          | 308.5       |

### dimension drawings

### Aluminium extrusion handles



04602069



a4-328d

### Dimensions table

| Pos. | Width<br>HP | Width<br>mm |
|------|-------------|-------------|
| 20   | 3           | 13.8        |
| 20   | 4           | 18.9        |
| 20   | 5           | 24.0        |
| 20   | 6           | 29.0        |
| 20   | 7           | 34.1        |
| 20   | 8           | 39.2        |
| 20   | 9           | 44.3        |
| 20   | 10          | 49.4        |
| 20   | 12          | 59.6        |
| 20   | 14          | 69.7        |
| 20   | 21          | 105.2       |
| 20   | 28          | 140.8       |
| 20   | 40          | 201.8       |
| 20   | 42          | 212.0       |
| 20   | -           | 1000.0      |

## Plug-in units with mechanical shielding

### Plug-in unit with mechanical protection, 3 U kits



04694001

- Mechanical protection of unit
- Earthing of shielding plates possible via Faston connectors 6.3 × 0.6 mm
- For euroboards 100 × 160 mm

Handles  
without extraction function



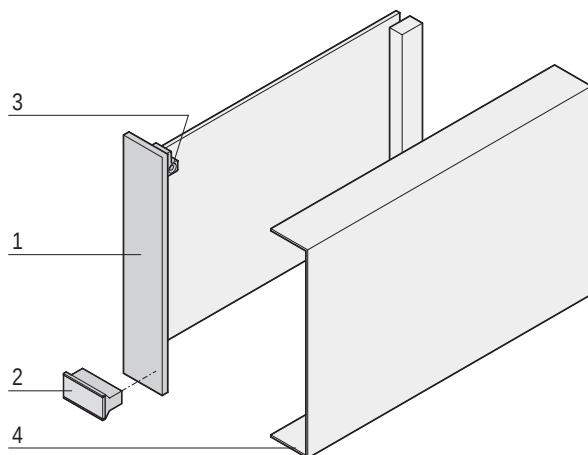
04692003

Handles  
with extraction function



04692005

### 3 U kit, shielding component side, handles with/without extraction function



04602077

- Usable connector conforms to EN 60603 (DIN 41612):  
Construction type B, C, D, F, H, R;

#### Delivery comprises (kit)

| Item | Qty | Description                                                                   |
|------|-----|-------------------------------------------------------------------------------|
| 1    | 1   | Front panel, Al, 2.5 mm,<br>front: anodised, rear: iridescent green chromated |
| 2    | 1   | Cantilever handle, PPE, UL 94 V-1, grey                                       |
| 3    | 1   | Board support, PBT, UL 94 V-0, red                                            |
| 5    | 1   | Assembly kit (also for shielding panels)                                      |

#### Order Information

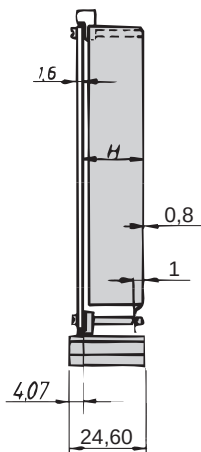
| Width                                                                                  | H     | Plug-in unit<br>without extraction<br>function | Plug-in unit<br>with extraction<br>function |
|----------------------------------------------------------------------------------------|-------|------------------------------------------------|---------------------------------------------|
| HP                                                                                     | mm    | Part no.                                       | Part no.                                    |
| 6                                                                                      | 24.60 | <b>20809-502</b>                               | <b>20809-516</b>                            |
| Item 4 Shielding panel for<br>component side 7 HP,<br>stainless steel, 0.8 mm, 1 piece |       | <b>20809-371</b>                               | <b>20809-371</b>                            |

#### Note

- Keying/coding with separate keying/coding strip is not possible
- Please order shielding plates separately



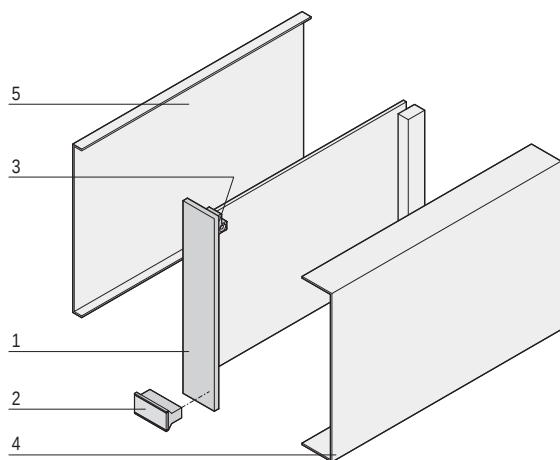
For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.



a4-237

## Plug-in units with mechanical shielding

### 3 U kits, both sides shielded (solder/component side), handles with/without extraction function



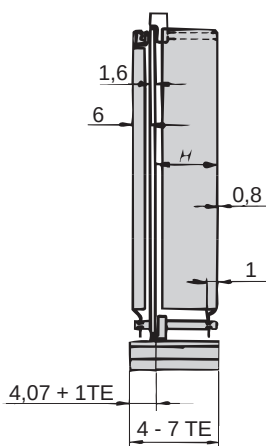
- Usable connector conforms to EN 60603 (DIN 41612):  
Construction type B, C, D, F, H, R;

#### Delivery comprises

| Item | Qty | Description                                                                |
|------|-----|----------------------------------------------------------------------------|
| 1    | 1   | Front panel, Al, 2.5 mm, front: anodised, rear: iridescent green chromated |
| 2    | 1   | Cantilever handle, without extraction function, PPE, UL 94 V-1, grey       |
| 3    | 2   | Board support, PBT, UL 94 V-0, red                                         |
| 6    | 1   | Assembly kit (also for shielding panels)                                   |

#### Order Information

| Width                                                                                   | H     | Plug-in unit without extraction function | Plug-in unit with extraction function |
|-----------------------------------------------------------------------------------------|-------|------------------------------------------|---------------------------------------|
| HP                                                                                      | mm    | Part no.                                 | Part no.                              |
| 4                                                                                       | 9.60  | <b>20809-495</b>                         | –                                     |
| 5                                                                                       | 14.70 | <b>20809-496</b>                         | <b>20809-511</b>                      |
| 6                                                                                       | 19.80 | <b>20809-497</b>                         | <b>20809-512</b>                      |
| 7                                                                                       | 24.90 | <b>20809-498</b>                         | <b>20809-513</b>                      |
| <b>Item 4</b> Shielding panel for component side 4 HP, stainless steel, 0.8 mm, 1 piece |       | <b>20809-329</b>                         | <b>20809-329</b>                      |
| <b>Item 4</b> Shielding panel for component side 5 HP, stainless steel, 0.8 mm, 1 piece |       | <b>20809-357</b>                         | <b>20809-357</b>                      |
| <b>Item 4</b> Shielding panel for component side 6 HP, stainless steel, 0.8 mm, 1 piece |       | <b>20809-359</b>                         | <b>20809-359</b>                      |
| <b>Item 4</b> Shielding panel for component side 7 HP, stainless steel, 0.8 mm, 1 piece |       | <b>20809-371</b>                         | <b>20809-371</b>                      |
| <b>Item 5</b> Shielding panel for solder side stainless steel, 0.8 mm, 1 piece          |       | <b>30809-571</b>                         | <b>30809-571</b>                      |



#### Note

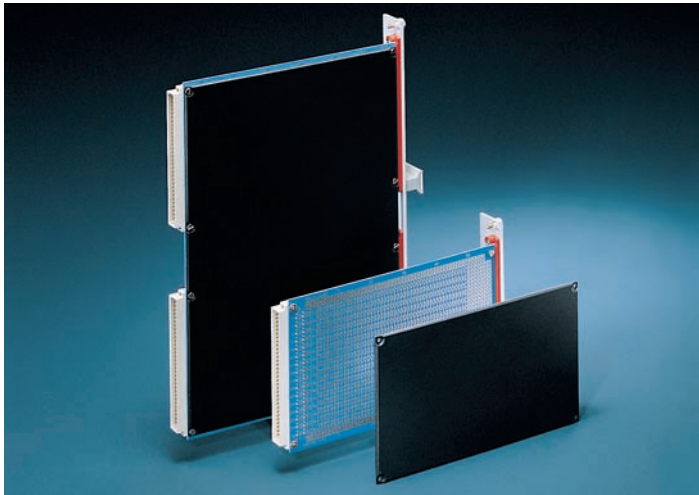
- Keying/coding with separate keying/coding strip is not possible
- Where the shielding plate is used for the solder side, the PCB is offset to the right by 1 HP



For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

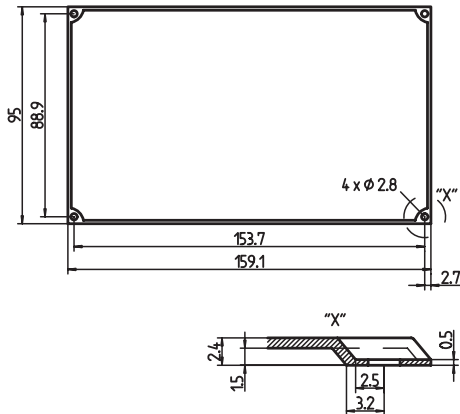
## Modules PB accessories

### PCB covers



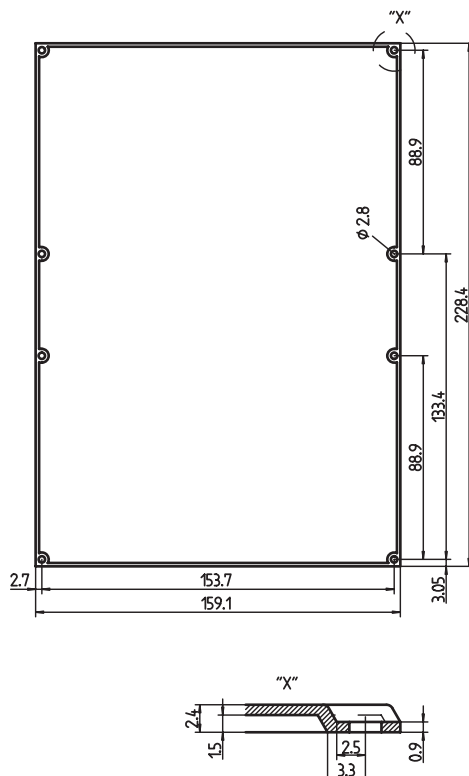
11092008

For 100 × 160 mm PCBs



LKA40520

For 233.35 × 160 mm PCBs



LKA30451

- Mechanical protection of the solder side

#### Order Information

| Description                                                                                                                 | Qty        | Part no.         |
|-----------------------------------------------------------------------------------------------------------------------------|------------|------------------|
| PCB cover for euroboards (100 x 160 mm), PBT, UL 94 V-0, black                                                              | 1 (SPQ 10) | <b>61000-007</b> |
| PCB cover with temperature expansion coefficients similar to FRA4 PCB; for euroboards (100 x 160 mm), LCP, UL 94 V-0, white | 1 (SPQ 10) | <b>61000-177</b> |
| Board cover for double euroboards (233.35 x 160 mm), PP, UL 94 V-0, black                                                   | 1 (SPQ 10) | <b>61000-012</b> |
| <b>Slotted flathead screw</b><br>M2.5 × 6, height of head 1.2 mm, PU 100 pieces                                             |            | <b>21102-007</b> |
| <b>Slotted flathead screw</b><br>M2.5 × 12, height of head 1.2 mm, PU 100 pieces                                            |            | <b>21102-008</b> |

SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity: please order at least 10 pieces of PCB covers or a multiple

#### Note

- PCB solder side cover for CompactPCI boards see page 8.111



For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

## Modules PB accessories



Overview ..... 0

Cabinets ..... 1

Wall mounted cases ..... 2

Accessories for cabinets and wall mounted cases .... 3

Climate control .... 4

Desk-top cases .... 5

Subracks/ 19" chassis ..... 6

Front panels, plug-in units ..... 7

Systems ..... 8

Power supply units ..... 9

Backplanes ..... 10

Connectors, front panel component system ..... 11

Appendix ..... 12

Frame type plug-in units



04807002

19" modules are mechanical components that serve to carry one or more circuit boards. The boards housed in a module are thus combined into a larger electronic function unit that is self-contained and testable. Mechanical dimensions conform to IEC 60297-3-101/ IEEE 1101.1/11 standards, i.e. the so-called 19" standard. These function units are integrated into the subrack or case; their dimensions likewise form a component of IEC 60297-3-101 / IEEE 1101.1/11.

The dimension obligations of the standard give only little freedom for individual design of frame type plug-in units. The aim is therefore to make optimum use of what freedoms regarding dimensions it does allow, e.g.

- to maximise the internal space of a plug-in unit so as to create as much space as possible for electronic components, or
- to ensure optimum EMC shielding with the least possible loss of mounting space to the shielding components

Standards

- IEC 60297-3-101 / IEEE 1101.1/11

| Product selection kits                       |      |   |      |   |      |   |      |   |       |   |       |   |       |   |       |   |       |   |       |   |
|----------------------------------------------|------|---|------|---|------|---|------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|
| Width                                        | 5 HP |   | 6 HP |   | 7 HP |   | 8 HP |   | 10 HP |   | 12 HP |   | 14 HP |   | 21 HP |   | 28 HP |   | 42 HP |   |
| Height in U                                  | 3    | 6 | 3    | 6 | 3    | 6 | 3    | 6 | 3     | 6 | 3     | 6 | 3     | 6 | 3     | 6 | 3     | 6 | 3     | 6 |
| Frame type<br>plug-in units PRO              | –    | – | –    | – | –    | – | x    | x | x     | x | x     | x | x     | x | x     | x | x     | x | x     | x |
| Frame type<br>plug-in units PRO<br>with hood | x    | x | x    | x | x    | x | –    | – | x     | x | x     | x | x     | x | –     | – | –     | – | –     | – |
| HF frame type<br>plug-in units               | –    | – | –    | – | x    | – | –    | – | x     | – | x     | – | x     | – | x     | – | x     | – | –     | – |



Downloads and further important information can be found on the Internet under [www.schroff.biz](http://www.schroff.biz)



## Frame type plug-in units

### Frame type plug-in units for installing PCBs

**NEW**

- Printed boards in Euroboard format
  - board heights: 100 mm (3 U), 233.35 mm (6 U)
  - board heights: 160 mm, 220 mm
- Kits or configuration from accessories
- Front panels: unshielded or EMC shielded
- Versions: frame type plug-in units PRO, frame type plug-in units PRO with hood and HF frame type plug-in units



04808008

#### Frame type plug-in units PRO

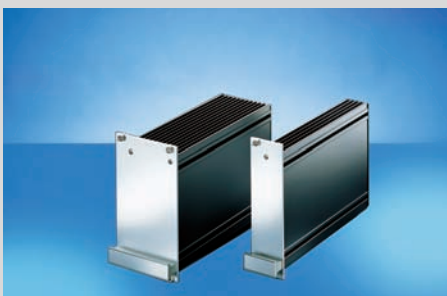
- Kit or configuration from individual parts in 3 and 6 U
- Shielded and unshielded versions
- For one or multiple PCBs, one or multiple connectors
- Diverse combinations of individual components



04808009

#### Frame type plug-in units PRO with hood

- Kit in 3 U and 6 U:
- Shielded and unshielded versions
- For single PCB with single connector



04892005

#### HF frame type plug-in units

- For shielding against high-frequency radiation
- Body tube with cooling fins, aluminium extrusion
- Kit or configuration from individual parts in 3 U
- For one or multiple PCBs, one or multiple connectors



30407004

#### ServicePLUS from page 7.74

- e.g. individual configuration and assembly
- e.g. modifications (special colours)
- e.g. custom solutions with modified frame type plug-in units (special sizes)

[www.schroff.biz/serviceplus/](http://www.schroff.biz/serviceplus/)

**FRONT PANEL  
EXPRESS**

Overview . . . . 7.66

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Frame type  
plug-in units PRO  
Frame type  
plug-in units PRO,  
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plug-in units  
PRO with hood,  
unshielded . . . 7.84

HF plug-in units  
Kits 3 U . . . . . 7.88

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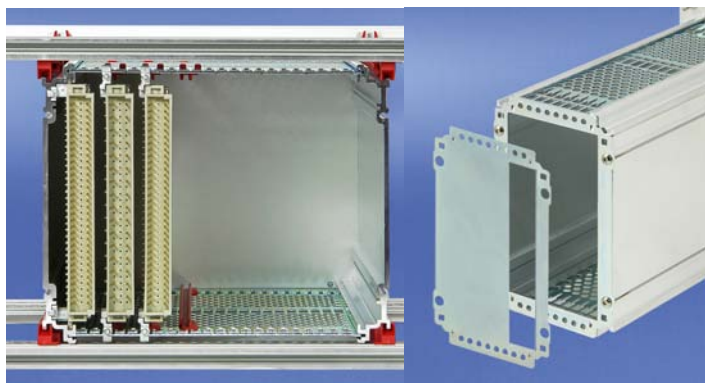
Plug-in unit with  
mechanical protection  
(trapeziform fixed  
handle)

See chapter  
Plug-in units . . . . 7.62

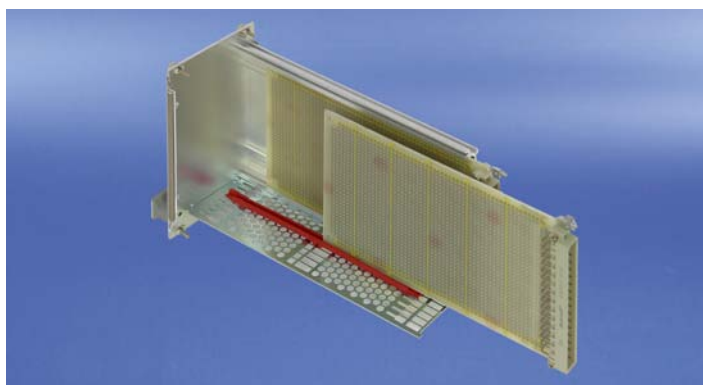


# Frame type plug-in units PRO – Introduction

## The new generation



Rear view: frame type plug-in unit mounted in subrack



Board fixing in slot 1 on side panel, in all other slots board fixing with guide rails



Sliding cover plates

The frame type plug-in units conform to IEC 60297-3-101. They serve to house standardized PCBs and bulky components. Because of the standardized assembly dimensions the frame type plug-in units can be mounted on guide rails, to be pushed into the subrack, in any order and using any plug-in unit. The robust Al extrusion construction is especially suited for heavy components and the rough handling as "Field Replaceable Unit".

## Details

The EMC version of the front panel was improved for frequencies over 1 GHz by using a conductive textile gasket and a robust U-shaped front panel

Sliding cover plates

Handles to be bolted-on from the front, easy mounting

Optimised airflow rate thanks to slender extruded side panels and large perforation areas in the cover plates, a perforation degree of up to 65 % is possible

3 cover plate versions (solid, perforated, perforated for guide rail mounting)

Width of frame type plug-in units from 8 HP

Frame type plug-in units with hood from 5 HP

To achieve a higher airflow rate, exceptionally slender guide rails are used to fix the boards

From slot 2 guide rails can be positioned in HP grid

Easy fixing of the boards in the frame type plug-in units; only 2 x 1 screws per board are needed to fix the boards

3 rear panel variants (solid, for single DIN connector, for multiple DIN connectors)

Thanks to the flat rear panel easy treatment is possible; the rear panel can be removed without unmounting the boards

For better EMC contacting between rear panel and cover plate and to increase the stability of broad frame type plug-in units, a rear panel retainer is available

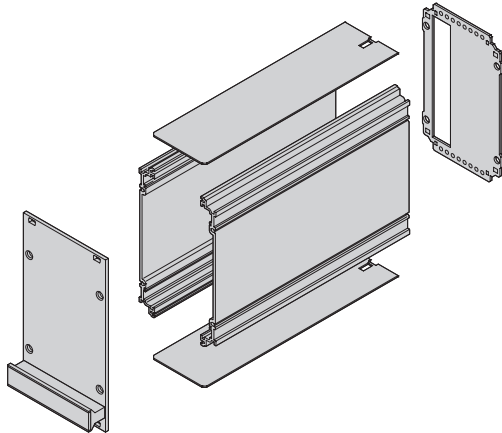
Use of Torx screws for secure machine mounting

## Frame type plug-in units PRO – Introduction

### Comparison:

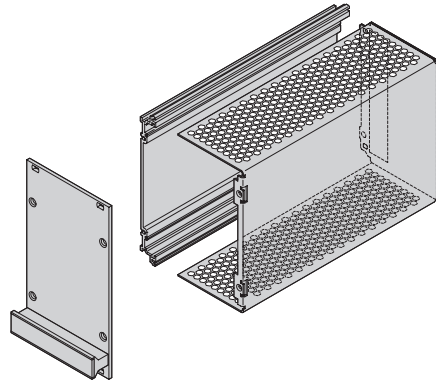
### Frame type plug-in units PRO/Frame type plug-in units PRO with hood

#### Frame type plug-in units PRO



04808125

#### Frame type plug-in units PRO with hood (shielded)



04808115

For single or multiple PCBs

Only for single PCB

Modular, at least 6 components (front panel, 2 side panels, 2 cover plates, rear panel)

Only 3 components (front panel, left hand side panel, hood with integrated rear panel)

Identical front panel and front handle

Identical front panel and front handle

Identical left hand side panel (Al extrusion)

Identical left hand side panel (Al extrusion)

Side panel on right hand side (Al extrusion)

Hood on right hand side (Al sheet)

Separate rear panel

Hood includes rear panel

Widths from 8 HP to 42 HP

Widths from 5 HP to 14 HP

Guiding in subrack/case with 4 guide rails; left and right side panels

Guiding in subrack/case with 2 guide rails; left side panel

3 rear panel variants (for single DIN connector, for multiple DIN connectors, rear panel without cut-out)

1 rear panel variant (for single DIN connector)

## Frame type plug-in units PRO

### Frame type plug-in units PRO, 3 U kits, front panel shielded (textile gasket)



04808003



ServicePLUS see page 7.74

■ Extruded side panels with groove to right and left, to insert a PCB

■ 2 depths: 167 mm and 227 mm

■ 2 cover plate versions:

- With perforation for guide rails (5a), airflow rate approx. 60 %; please order guide rails separately
- Without perforation (5b)

■ 2 rear panel versions:

- With cut-out for single connector (3a)
- With wide cut-out for multiple connectors (3b)

**NEW**

#### Delivery comprises (Kit)

| Item | Qty | Description                                                                                                                      |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------|
| 1    | 1   | Front panel, U profile anodised, rear conductive, alignment pin pressed-in                                                       |
| 2    | 1   | Handle, grey, PPE, UL 94 V-1                                                                                                     |
| 3a   | 1   | Rear panel, St, zinc-plated, 1.5 mm, with cut-out for one connector, incl. PCB fixing (slot 1)                                   |
| 3b   | 1   | Rear panel, St, zinc-plated, 1.5 mm, with cut-out for multiple connectors, incl. PCB fixing (slots 1 and 2), incl. 2 guide rails |
| 3c   |     | 2 rear panel brackets                                                                                                            |
| 4    | 2   | Side panel, Al extrusion, colourless passivated, with groove for one PCB                                                         |
| 5a   | 2   | Cover plate, St, zinc-plated, 1.0 mm, with perforation                                                                           |
| 5b   | 2   | Cover plate, St, zinc-plated, 1.0 mm, without perforation                                                                        |
| 6    | 1   | EMC sealing (textile)                                                                                                            |
| 7    | 1   | Assembly kit                                                                                                                     |

#### Order Information

| Rear panel |  | Height | Width | Cover plate without perforation |                  | Cover plate with perforation, for guide rails |                  |
|------------|--|--------|-------|---------------------------------|------------------|-----------------------------------------------|------------------|
|            |  | U      | HP    | 167 mm deep                     | 227 mm deep      | 167 mm deep                                   | 227 mm deep      |
|            |  |        |       | Part no.                        | Part no.         | Part no.                                      | Part no.         |
|            |  | 3      | 8     | <b>24813-408</b>                | <b>24813-458</b> | <b>24813-208</b>                              | <b>24813-258</b> |
|            |  | 3      | 10    | <b>24813-410</b>                | <b>24813-460</b> | <b>24813-210</b>                              | <b>24813-260</b> |
|            |  | 3      | 12    | <b>24813-412</b>                | <b>24813-462</b> | <b>24813-212</b>                              | <b>24813-262</b> |
|            |  | 3      | 14    | <b>24813-414</b>                | <b>24813-464</b> | <b>24813-214</b>                              | <b>24813-264</b> |
|            |  | 3      | 21    | <b>24813-421</b>                | <b>24813-471</b> | <b>24813-221</b>                              | <b>24813-271</b> |
|            |  | 3      | 28    | <b>24813-428</b>                | <b>24813-478</b> | <b>24813-228</b>                              | <b>24813-278</b> |
|            |  | 3      | 42    | <b>24813-442</b>                | <b>24813-492</b> | <b>24813-242</b>                              | <b>24813-292</b> |
|            |  | 3      | 8     | —                               | —                | <b>24813-308</b>                              | <b>24813-358</b> |
|            |  | 3      | 10    | —                               | —                | <b>24813-310</b>                              | <b>24813-360</b> |
|            |  | 3      | 12    | —                               | —                | <b>24813-312</b>                              | <b>24813-362</b> |
|            |  | 3      | 14    | —                               | —                | <b>24813-314</b>                              | <b>24813-364</b> |
|            |  | 3      | 21    | —                               | —                | <b>24813-321</b>                              | <b>24813-371</b> |
|            |  | 3      | 28    | —                               | —                | <b>24813-328</b>                              | <b>24813-378</b> |
|            |  | 3      | 42    | —                               | —                | <b>24813-342</b>                              | <b>24813-392</b> |
|            |  | 3      | 8     | —                               | —                | —                                             | —                |
|            |  | 3      | 10    | —                               | —                | —                                             | —                |
|            |  | 3      | 12    | —                               | —                | —                                             | —                |
|            |  | 3      | 14    | —                               | —                | —                                             | —                |
|            |  | 3      | 21    | —                               | —                | —                                             | —                |
|            |  | 3      | 28    | —                               | —                | —                                             | —                |

■ Description of individual components, guide rails, dimension drawings, other combinations cover plates/rear panels etc. see from page 7.75



## Frame type plug-in units PRO

### Frame type plug-in units PRO, 6 U kits, front panel shielded (textile gasket)



04808004



ServicePLUS see page 7.74

**NEW**

- Extruded side panels with groove to right and left, to insert a PCB
- 2 depths: 167 mm and 227 mm
- 2 cover plate versions:
  - With perforation for guide rails (5a), airflow rate approx. 60 %; please order guide rails separately
  - Without perforation (5b)
- 2 rear panel versions:
  - With cut-out for single connector (3a)
  - With wide cut-out for multiple connectors (3b)

#### Delivery comprises (Kit)

| Item | Qty | Description                                                                                                                                             |
|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 1   | Front panel, U profile anodised, rear conductive, alignment pin pressed-in                                                                              |
| 2    | 1   | Handle, grey, PPE, UL 94 V-1                                                                                                                            |
| 3a   | 1   | Rear panel, St, zinc-plated, 1.5 mm, with cut-out for one connector, incl. PCB fixing (slot 1)                                                          |
| 3b   | 1   | Rear panel, St, zinc-plated, 1.5 mm, with cut-out for multiple connectors, incl. PCB fixing (slots 1 and 2), incl. 2 guide rails, 2 rear panel brackets |
| 3c   |     |                                                                                                                                                         |
| 4    | 2   | Side panel, Al extrusion, colourless passivated, with groove for one PCB                                                                                |
| 5a   | 2   | Cover plate, St, zinc-plated, 1.0 mm, with perforation                                                                                                  |
| 5b   | 2   | Cover plate, St, zinc-plated, 1.0 mm, without perforation                                                                                               |
| 6    | 1   | EMC sealing (textile)                                                                                                                                   |
| 7    | 1   | Assembly kit                                                                                                                                            |

#### Order Information

| Rear panel |  |  | Height | Width | Cover plate without perforation |                  | Cover plate with perforation, for guide rails |                  |
|------------|--|--|--------|-------|---------------------------------|------------------|-----------------------------------------------|------------------|
|            |  |  | U      | HP    | 167 mm deep                     | 227 mm deep      | 167 mm deep                                   | 227 mm deep      |
|            |  |  |        |       | Part no.                        | Part no.         | Part no.                                      | Part no.         |
|            |  |  | 6      | 8     | <b>24813-908</b>                | <b>24813-958</b> | <b>24813-708</b>                              | <b>24813-758</b> |
|            |  |  | 6      | 10    | <b>24813-910</b>                | <b>24813-960</b> | <b>24813-710</b>                              | <b>24813-760</b> |
|            |  |  | 6      | 12    | <b>24813-912</b>                | <b>24813-962</b> | <b>24813-712</b>                              | <b>24813-762</b> |
|            |  |  | 6      | 14    | <b>24813-914</b>                | <b>24813-964</b> | <b>24813-714</b>                              | <b>24813-764</b> |
|            |  |  | 6      | 21    | <b>24813-921</b>                | <b>24813-971</b> | <b>24813-721</b>                              | <b>24813-771</b> |
|            |  |  | 6      | 28    | <b>24813-928</b>                | <b>24813-978</b> | <b>24813-728</b>                              | <b>24813-778</b> |
|            |  |  | 6      | 42    | <b>24813-942</b>                | <b>24813-992</b> | <b>24813-742</b>                              | <b>24813-792</b> |
|            |  |  | 6      | 8     | —                               | —                | <b>24813-808</b>                              | <b>24813-858</b> |
|            |  |  | 6      | 10    | —                               | —                | <b>24813-810</b>                              | <b>24813-860</b> |
|            |  |  | 6      | 12    | —                               | —                | <b>24813-812</b>                              | <b>24813-862</b> |
|            |  |  | 6      | 14    | —                               | —                | <b>24813-814</b>                              | <b>24813-864</b> |
|            |  |  | 6      | 21    | —                               | —                | <b>24813-821</b>                              | <b>24813-871</b> |
|            |  |  | 6      | 28    | —                               | —                | <b>24813-828</b>                              | <b>24813-878</b> |
|            |  |  | 6      | 42    | —                               | —                | <b>24813-842</b>                              | <b>24813-892</b> |

- Description of individual components, guide rails, dimension drawings, other combinations cover plates/rear panels etc. see from page 7.75

## Frame type plug-in units PRO

### Frame type plug-in units PRO, 3 U kits, front panel unshielded



04808005



ServicePLUS see page 7.74

■ Extruded side panels with groove to right and left, to insert a PCB

■ 2 depths: 167 mm and 227 mm

■ 2 cover plate versions:

- With perforation for guide rails (5a), airflow rate approx. 60 %; please order guide rails separately
- Without perforation (5b)

■ 2 rear panel versions:

- With cut-out for single connector (3a)
- With wide cut-out for multiple connectors (3b)

**NEW**

#### Delivery comprises (Kit)

| Item | Qty | Description                                                                                                                       |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------|
| 1    | 1   | Front panel, Al, 2.5 mm, anodised, cut edges plain                                                                                |
| 2    | 1   | Handle, grey, PPE, UL 94 V-1                                                                                                      |
| 3a   | 1   | Rear panel, St, zinc-plated, 1.5 mm, with cut-out for one connector, incl. PCB fixing (slot 1)                                    |
| 3b   | 1   | Rear panel, St, zinc-plated, 1.5 mm, with cut-out for multiple connectors, incl. PCB fixing (slots 1 and 2), incl. 2 guide rails, |
| 3c   |     | 2 rear panel brackets                                                                                                             |
| 4    | 2   | Side panel, Al extrusion, colourless passivated, with groove for one PCB                                                          |
| 5a   | 2   | Cover plate, St, zinc-plated, 1.0 mm, with perforation                                                                            |
| 5b   | 2   | Cover plate, St, zinc-plated, 1.0 mm, without perforation                                                                         |
| 6    | 1   | Assembly kit                                                                                                                      |

#### Order Information

| Rear panel |  | Height | Width | Cover plate without perforation |                         | Cover plate with perforation, for guide rails |                         |
|------------|--|--------|-------|---------------------------------|-------------------------|-----------------------------------------------|-------------------------|
|            |  | U      | HP    | 167 mm deep<br>Part no.         | 227 mm deep<br>Part no. | 167 mm deep<br>Part no.                       | 227 mm deep<br>Part no. |
|            |  | 3      | 8     | <b>24812-408</b>                | <b>24812-458</b>        | <b>24812-208</b>                              | <b>24812-258</b>        |
|            |  | 3      | 10    | <b>24812-410</b>                | <b>24812-460</b>        | <b>24812-210</b>                              | <b>24812-260</b>        |
|            |  | 3      | 12    | <b>24812-412</b>                | <b>24812-462</b>        | <b>24812-212</b>                              | <b>24812-262</b>        |
|            |  | 3      | 14    | <b>24812-414</b>                | <b>24812-464</b>        | <b>24812-214</b>                              | <b>24812-264</b>        |
|            |  | 3      | 21    | <b>24812-421</b>                | <b>24812-471</b>        | <b>24812-221</b>                              | <b>24812-271</b>        |
|            |  | 3      | 28    | <b>24812-428</b>                | <b>24812-478</b>        | <b>24812-228</b>                              | <b>24812-278</b>        |
|            |  | 3      | 42    | <b>24812-442</b>                | <b>24812-492</b>        | <b>24812-242</b>                              | <b>24812-292</b>        |
|            |  | 3      | 8     | —                               | —                       | <b>24812-308</b>                              | <b>24812-358</b>        |
|            |  | 3      | 10    | —                               | —                       | <b>24812-310</b>                              | <b>24812-360</b>        |
|            |  | 3      | 12    | —                               | —                       | <b>24812-312</b>                              | <b>24812-362</b>        |
|            |  | 3      | 14    | —                               | —                       | <b>24812-314</b>                              | <b>24812-364</b>        |
|            |  | 3      | 21    | —                               | —                       | <b>24812-321</b>                              | <b>24812-371</b>        |
|            |  | 3      | 28    | —                               | —                       | <b>24812-328</b>                              | <b>24812-378</b>        |
|            |  | 3      | 42    | —                               | —                       | <b>24812-342</b>                              | <b>24812-392</b>        |

■ Description of individual components, guide rails, dimension drawings, other combinations cover plates/rear panels etc. see from page 7.75

## Frame type plug-in units PRO

### Frame type plug-in units PRO, 6 U kits, front panel unshielded



04808006



ServicePLUS see page 7.74

- Extruded side panels with groove to right and left, to insert a PCB

- 2 depths: 167 mm and 227 mm

- 2 cover plate versions:
  - With perforation for guide rails (5a), airflow rate approx. 60 %; please order guide rails separately
  - Without perforation (5b)

- 2 rear panel versions:
  - With cut-out for single connector (3a)
  - With wide cut-out for multiple connectors (3b)

**NEW**

#### Delivery comprises (Kit)

| Item | Qty | Description                                                                                                                       |
|------|-----|-----------------------------------------------------------------------------------------------------------------------------------|
| 1    | 1   | Front panel, Al, 2.5 mm, anodised, cut edges plain                                                                                |
| 2    | 1   | Handle, grey, PPE, UL 94 V-1                                                                                                      |
| 3a   | 1   | Rear panel, St, zinc-plated, 1.5 mm, with cut-out for one connector, incl. PCB fixing (slot 1)                                    |
| 3b   | 1   | Rear panel, St, zinc-plated, 1.5 mm, with cut-out for multiple connectors, incl. PCB fixing (slots 1 and 2), incl. 2 guide rails, |
| 3c   |     | 2 rear panel brackets                                                                                                             |
| 4    | 2   | Side panel, Al extrusion, colourless passivated, with groove for one PCB                                                          |
| 5a   | 2   | Cover plate, St, zinc-plated, 1.0 mm, with perforation                                                                            |
| 5b   | 2   | Cover plate, St, zinc-plated, 1.0 mm, without perforation                                                                         |
| 6    | 1   | Assembly kit                                                                                                                      |

#### Order Information

| Rear panel |  | Height | Width | Cover plate without perforation |                         | Cover plate with perforation, for guide rails |                         |
|------------|--|--------|-------|---------------------------------|-------------------------|-----------------------------------------------|-------------------------|
|            |  | U      | HP    | 167 mm deep<br>Part no.         | 227 mm deep<br>Part no. | 167 mm deep<br>Part no.                       | 227 mm deep<br>Part no. |
|            |  | 6      | 8     | <b>24812-908</b>                | <b>24812-958</b>        | <b>24812-708</b>                              | <b>24812-758</b>        |
|            |  | 6      | 10    | <b>24812-910</b>                | <b>24812-960</b>        | <b>24812-710</b>                              | <b>24812-760</b>        |
|            |  | 6      | 12    | <b>24812-912</b>                | <b>24812-962</b>        | <b>24812-712</b>                              | <b>24812-762</b>        |
|            |  | 6      | 14    | <b>24812-914</b>                | <b>24812-964</b>        | <b>24812-714</b>                              | <b>24812-764</b>        |
|            |  | 6      | 21    | <b>24812-921</b>                | <b>24812-971</b>        | <b>24812-721</b>                              | <b>24812-771</b>        |
|            |  | 6      | 28    | <b>24812-928</b>                | <b>24812-978</b>        | <b>24812-728</b>                              | <b>24812-778</b>        |
|            |  | 6      | 42    | <b>24812-942</b>                | <b>24812-992</b>        | <b>24812-742</b>                              | <b>24812-792</b>        |
|            |  | 6      | 8     | —                               | —                       | <b>24812-808</b>                              | <b>24812-858</b>        |
|            |  | 6      | 10    | —                               | —                       | <b>24812-810</b>                              | <b>24812-860</b>        |
|            |  | 6      | 12    | —                               | —                       | <b>24812-812</b>                              | <b>24812-862</b>        |
|            |  | 6      | 14    | —                               | —                       | <b>24812-814</b>                              | <b>24812-864</b>        |
|            |  | 6      | 21    | —                               | —                       | <b>24812-821</b>                              | <b>24812-871</b>        |
|            |  | 6      | 28    | —                               | —                       | <b>24812-828</b>                              | <b>24812-878</b>        |
|            |  | 6      | 42    | —                               | —                       | <b>24812-842</b>                              | <b>24812-892</b>        |

- Description of individual components, guide rails, dimension drawings, other combinations cover plates/rear panels etc. see from page 7.75



## Frame type plug-in units PRO ServicePLUS



### configuration

Components can be varied and combined freely

### Simple. Fast. For the product you want.

- Configuration tables for frame type plug-in units PRO from page 7.75
- Configuration tables for HF plug-in units from page 7.88
- Online configuration: [www.schroff.co.uk/configuration](http://www.schroff.co.uk/configuration)



### assembly

Fitting of all mechanical, electrical and electronic components by our specialists

### Assembled by professionals. Twice the benefit!

- Professional and reliable
- Packed ready for despatch
- Further information: [www.schroff.co.uk/assembly](http://www.schroff.co.uk/assembly)



### modification

Custom drillings, cut-outs and special colours for standard products

### Small changes. Large impact.

- Holes, cut-outs, drill holes, individual colour and printing
- Further information: [www.schroff.co.uk/modification](http://www.schroff.co.uk/modification)



### solution

Integration and custom developments

### Simple. Fast. From one source.

- Special sizes, customised solutions
- Thermal concepts
- EMC solutions
- Further information: [www.schroff.co.uk/solution](http://www.schroff.co.uk/solution)



### express

Delivery time to customer's request

### When fast has to be faster.

- Delivery time for front panels from 2 working days; for frame type plug-in units ready for despatch from 5 working days
- Further information: [www.schroff.co.uk/express](http://www.schroff.co.uk/express)

**FRONT PANEL**  
**EXPRESS**



### academy

Knowledge transfer and partnership

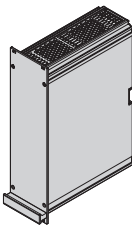
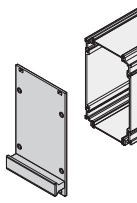
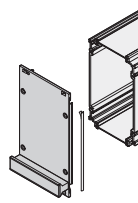
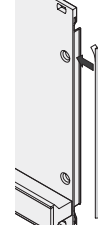
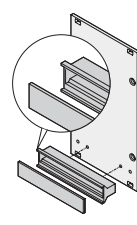
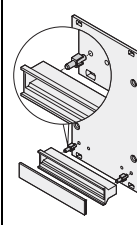
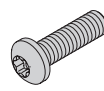
### Knowledge. Sharing. Partnerships.

- Downloadable CAD drawings, test reports, user manual
- Further information: [www.schroff.co.uk/academy](http://www.schroff.co.uk/academy)

# Frame type plug-in units PRO ServicePLUS

## Individual components

## Front panels, front handles

|                                                                                               | Front panel                                                                                   | U front panel shieldable                                                                      |                                                                                                                                                                                                     | Static handle (without extraction function)                                                                       |                                                                                                 |                                                                                                        | Panhead screw |           |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------|-----------|
|                                                                                               | unshielded                                                                                    | Front panel                                                                                   | EMC textile gasket                                                                                                                                                                                  | Grey                                                                                                              | Black                                                                                           | Fixing clip                                                                                            |               |           |
| <br>04808124 | <br>04808060 | <br>04808061 | <br>04808062                                                                                                       | <br>04808063                    | <br>04808064 | <br>aza45940        |               |           |
|                                                                                               | Al, 2.5 mm, anodised, cut edges blank                                                         | Al extrusion, alignment pin pressed-in, front anodised, rear side conductive                  | adhesively fixed in the groove of the profile on the side of the front panel; textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0, temperature range -40 °C ... 70 °C | Handle: PPE, UL 94 V-1; identification plate: Al, 1.5 mm, anodised, cut edges plain; please order clip separately | Clip, PPE, UL 94 V-0, black, alignment aid for trapezium shaped handle                          | Torx panhead screw, M2.5 x 10, St, zinc-plated, self-forming thread; assembly of handle on front panel |               |           |
| Supplied quantity for assembly of 5 frame type plug-in units                                  | 1 piece (SPQ 5) <sup>1)</sup>                                                                 | 1 piece (SPQ 5) <sup>1)</sup>                                                                 | PU 10 pieces   PU 100 pieces                                                                                                                                                                        | 1 piece (SPQ 5) <sup>1)</sup>   1 piece (SPQ 5) <sup>1)</sup>                                                     | PU 100 pieces                                                                                   | PU 100 pieces                                                                                          |               |           |
| Width                                                                                         | 3 U Height                                                                                    |                                                                                               |                                                                                                                                                                                                     |                                                                                                                   |                                                                                                 |                                                                                                        |               |           |
| HP                                                                                            | Depth 167 mm                                                                                  |                                                                                               |                                                                                                                                                                                                     |                                                                                                                   |                                                                                                 |                                                                                                        |               |           |
| 8                                                                                             | 34812-108                                                                                     | 34813-108                                                                                     | 21101-853                                                                                                                                                                                           | 21101-854                                                                                                         | 20808-062                                                                                       | 20808-083                                                                                              | 21101-239     | 24560-179 |
| 10                                                                                            | 34812-110                                                                                     | 34813-110                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-004                                                                                       | 20808-085                                                                                              |               |           |
| 12                                                                                            | 34812-112                                                                                     | 34813-112                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-064                                                                                       | 20808-086                                                                                              |               |           |
| 14                                                                                            | 34812-114                                                                                     | 34813-114                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-065                                                                                       | 20808-087                                                                                              |               |           |
| 21                                                                                            | 34812-121                                                                                     | 34813-121                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-066                                                                                       | 20808-088                                                                                              |               |           |
| 28                                                                                            | 34812-128                                                                                     | 34813-128                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-067                                                                                       | 20808-089                                                                                              |               |           |
| 42                                                                                            | 34812-142                                                                                     | 34813-142                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-068                                                                                       | 20808-091                                                                                              |               |           |
|                                                                                               | Depth 227 mm                                                                                  |                                                                                               |                                                                                                                                                                                                     |                                                                                                                   |                                                                                                 |                                                                                                        |               |           |
| 8                                                                                             | 34812-108                                                                                     | 34813-108                                                                                     | 21101-853                                                                                                                                                                                           | 21101-854                                                                                                         | 20808-062                                                                                       | 20808-083                                                                                              | 21101-239     | 24560-179 |
| 10                                                                                            | 34812-110                                                                                     | 34813-110                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-004                                                                                       | 20808-085                                                                                              |               |           |
| 12                                                                                            | 34812-112                                                                                     | 34813-112                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-064                                                                                       | 20808-086                                                                                              |               |           |
| 14                                                                                            | 34812-114                                                                                     | 34813-114                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-065                                                                                       | 20808-087                                                                                              |               |           |
| 21                                                                                            | 34812-121                                                                                     | 34813-121                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-066                                                                                       | 20808-088                                                                                              |               |           |
| 28                                                                                            | 34812-128                                                                                     | 34813-128                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-067                                                                                       | 20808-089                                                                                              |               |           |
| 42                                                                                            | 34812-142                                                                                     | 34813-142                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-068                                                                                       | 20808-091                                                                                              |               |           |
|                                                                                               | Depth 227 mm                                                                                  |                                                                                               |                                                                                                                                                                                                     |                                                                                                                   |                                                                                                 |                                                                                                        |               |           |
| 8                                                                                             | 34812-608                                                                                     | 34813-608                                                                                     | 21101-855                                                                                                                                                                                           | 21101-856                                                                                                         | 20808-062                                                                                       | 20808-083                                                                                              | 21101-239     | 24560-179 |
| 10                                                                                            | 34812-610                                                                                     | 34813-610                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-004                                                                                       | 20808-085                                                                                              |               |           |
| 12                                                                                            | 34812-612                                                                                     | 34813-612                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-064                                                                                       | 20808-086                                                                                              |               |           |
| 14                                                                                            | 34812-614                                                                                     | 34813-614                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-065                                                                                       | 20808-087                                                                                              |               |           |
| 21                                                                                            | 34812-621                                                                                     | 34813-621                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-066                                                                                       | 20808-088                                                                                              |               |           |
| 28                                                                                            | 34812-628                                                                                     | 34813-628                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-067                                                                                       | 20808-089                                                                                              |               |           |
| 42                                                                                            | 34812-642                                                                                     | 34813-642                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-068                                                                                       | 20808-091                                                                                              |               |           |
|                                                                                               | Depth 227 mm                                                                                  |                                                                                               |                                                                                                                                                                                                     |                                                                                                                   |                                                                                                 |                                                                                                        |               |           |
| 8                                                                                             | 34812-608                                                                                     | 34813-608                                                                                     | 21101-855                                                                                                                                                                                           | 21101-856                                                                                                         | 20808-062                                                                                       | 20808-083                                                                                              | 21101-239     | 24560-179 |
| 10                                                                                            | 34812-610                                                                                     | 34813-610                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-004                                                                                       | 20808-085                                                                                              |               |           |
| 12                                                                                            | 34812-612                                                                                     | 34813-612                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-064                                                                                       | 20808-086                                                                                              |               |           |
| 14                                                                                            | 34812-614                                                                                     | 34813-614                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-065                                                                                       | 20808-087                                                                                              |               |           |
| 21                                                                                            | 34812-621                                                                                     | 34813-621                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-066                                                                                       | 20808-088                                                                                              |               |           |
| 28                                                                                            | 34812-628                                                                                     | 34813-628                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-067                                                                                       | 20808-089                                                                                              |               |           |
| 42                                                                                            | 34812-642                                                                                     | 34813-642                                                                                     |                                                                                                                                                                                                     |                                                                                                                   | 20808-068                                                                                       | 20808-091                                                                                              |               |           |
| Dimension drawings see page                                                                   | 7.81                                                                                          | 7.81                                                                                          |                                                                                                                                                                                                     |                                                                                                                   | 7.81                                                                                            | 7.81                                                                                                   |               |           |

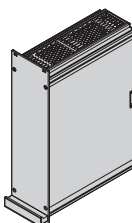
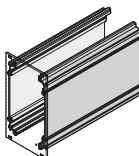
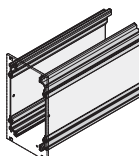
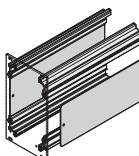
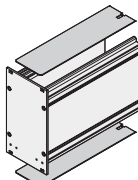
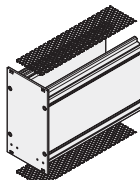
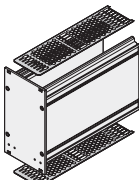
1) SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

Part no. includes one packing unit (PU); delivery is exclusively made in PU

# Frame type plug-in units PRO ServicePLUS

## Individual components

## Side panels, cover plates, guide rails

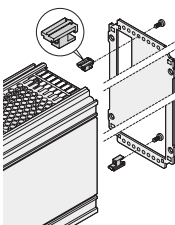
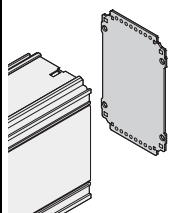
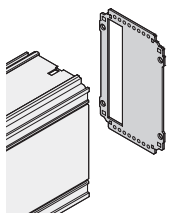
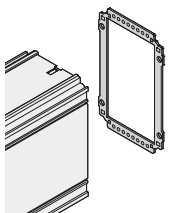
|                                                                                              | Extruded side panel                                                                           |                                             | Side panel corner profile and side plate                                                         |                                                                                               | Cover plate                                                                                   |                                                                                                      | Cover plate with perforation for guide rails                                                                        |                                                                                                 |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|                                                                                              | Left                                                                                          | Right                                       | Rear angle                                                                                       | Side plate                                                                                    | Without perforation                                                                           | With perforation                                                                                     | Cover plate                                                                                                         | Guide rail                                                                                      |
| <br>04808124 | <br>04808065 |                                             | <br>04808066    | <br>04808067 | <br>04808068 | <br>04808070      | <br>04808069                     | <br>04808074 |
| Supplied quantity for assembly of 5 frame type plug-in units                                 | Al extrusion, colourless passivated, with groove for one PCB                                  |                                             | Al extrusion, colourless passivated, with groove for one PCB, please order side plate separately | St, 1 mm, zinc-plated; is pushed into side panel rear angle                                   | St, 1.0 mm, zinc-plated; PCB only possible in slot 1                                          | St, 1.0 mm, zinc-plated, air flow rate in perforated part approx. 65 %; PCB only possible in slot 1; | St, 1.0 mm, zinc-plated; air flow rate in perforated part approx. 60 %; please order snap-in guide rails separately | red, PBT, UL 94 V-0, groove width 2 mm, necessary from slot 2                                   |
|                                                                                              | 1 piece (SPQ 10) <sup>1)</sup>                                                                | 1 piece (SPQ 10) <sup>1)</sup>              | 1 piece (SPQ 10) <sup>1)</sup>                                                                   | 1 piece (SPQ 5) <sup>1)</sup>                                                                 | 1 piece (SPQ 10) <sup>1)</sup>                                                                | 1 piece (SPQ 10) <sup>1)</sup>                                                                       | 1 piece (SPQ 10) <sup>1)</sup>                                                                                      | PU 10 pieces                                                                                    |
| Width                                                                                        | 3 U Height                                                                                    |                                             |                                                                                                  |                                                                                               |                                                                                               |                                                                                                      |                                                                                                                     |                                                                                                 |
| HP                                                                                           | Depth 167 mm                                                                                  |                                             |                                                                                                  |                                                                                               |                                                                                               |                                                                                                      |                                                                                                                     |                                                                                                 |
| 8                                                                                            | 34812-100<br>1 piece (SPQ 10) <sup>1)</sup>                                                   | 34812-100<br>1 piece (SPQ 10) <sup>1)</sup> | 34812-102                                                                                        | 34812-103                                                                                     | 34812-408                                                                                     | 34812-958                                                                                            | 34812-908                                                                                                           | 24812-101                                                                                       |
| 10                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34812-410                                                                                     | 34812-960                                                                                            | 34812-910                                                                                                           |                                                                                                 |
| 12                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34812-412                                                                                     | 34812-962                                                                                            | 34812-912                                                                                                           |                                                                                                 |
| 14                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34812-414                                                                                     | 34812-964                                                                                            | 34812-914                                                                                                           |                                                                                                 |
| 21                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34812-421                                                                                     | 34812-971                                                                                            | 34812-921                                                                                                           |                                                                                                 |
| 28                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34812-428                                                                                     | 34812-978                                                                                            | 34812-928                                                                                                           |                                                                                                 |
| 42                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34812-442                                                                                     | 34812-992                                                                                            | 34812-942                                                                                                           |                                                                                                 |
|                                                                                              | Depth 227 mm                                                                                  |                                             |                                                                                                  |                                                                                               |                                                                                               |                                                                                                      |                                                                                                                     |                                                                                                 |
| 8                                                                                            | 34813-100<br>1 piece (SPQ 10) <sup>1)</sup>                                                   | 34813-100<br>1 piece (SPQ 10) <sup>1)</sup> | 34813-102                                                                                        | 34813-103                                                                                     | 34813-408                                                                                     | 34813-958                                                                                            | 34813-908                                                                                                           | 24812-101                                                                                       |
| 10                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34813-410                                                                                     | 34813-960                                                                                            | 34813-910                                                                                                           |                                                                                                 |
| 12                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34813-412                                                                                     | 34813-962                                                                                            | 34813-912                                                                                                           |                                                                                                 |
| 14                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34813-414                                                                                     | 34813-964                                                                                            | 34813-914                                                                                                           |                                                                                                 |
| 21                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34813-421                                                                                     | 34813-971                                                                                            | 34813-921                                                                                                           |                                                                                                 |
| 28                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34813-428                                                                                     | 34813-978                                                                                            | 34813-928                                                                                                           |                                                                                                 |
| 42                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34813-442                                                                                     | 34813-992                                                                                            | 34813-942                                                                                                           |                                                                                                 |
|                                                                                              | Depth 227 mm                                                                                  |                                             |                                                                                                  |                                                                                               |                                                                                               |                                                                                                      |                                                                                                                     |                                                                                                 |
| Width                                                                                        | 6 U Height                                                                                    |                                             |                                                                                                  |                                                                                               |                                                                                               |                                                                                                      |                                                                                                                     |                                                                                                 |
| HP                                                                                           | Depth 167 mm                                                                                  |                                             |                                                                                                  |                                                                                               |                                                                                               |                                                                                                      |                                                                                                                     |                                                                                                 |
| 8                                                                                            | 34812-600<br>1 piece (SPQ 5) <sup>1)</sup>                                                    | 34812-601<br>1 piece (SPQ 5) <sup>1)</sup>  | 34812-102                                                                                        | 34812-603                                                                                     | 34812-408                                                                                     | 34812-958                                                                                            | 34812-908                                                                                                           | 24812-101                                                                                       |
| 10                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34812-410                                                                                     | 34812-960                                                                                            | 34812-910                                                                                                           |                                                                                                 |
| 12                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34812-412                                                                                     | 34812-962                                                                                            | 34812-912                                                                                                           |                                                                                                 |
| 14                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34812-414                                                                                     | 34812-964                                                                                            | 34812-914                                                                                                           |                                                                                                 |
| 21                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34812-421                                                                                     | 34812-971                                                                                            | 34812-921                                                                                                           |                                                                                                 |
| 28                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34812-428                                                                                     | 34812-978                                                                                            | 34812-928                                                                                                           |                                                                                                 |
| 42                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34812-442                                                                                     | 34812-992                                                                                            | 34812-942                                                                                                           |                                                                                                 |
|                                                                                              | Depth 227 mm                                                                                  |                                             |                                                                                                  |                                                                                               |                                                                                               |                                                                                                      |                                                                                                                     |                                                                                                 |
| 8                                                                                            | 34813-600<br>1 piece (SPQ 5) <sup>1)</sup>                                                    | 34813-601<br>1 piece (SPQ 5) <sup>1)</sup>  | 34813-102                                                                                        | 34813-603                                                                                     | 34813-408                                                                                     | 34813-958                                                                                            | 34813-908                                                                                                           | 24812-101                                                                                       |
| 10                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34813-410                                                                                     | 34813-960                                                                                            | 34813-910                                                                                                           |                                                                                                 |
| 12                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34813-412                                                                                     | 34813-962                                                                                            | 34813-912                                                                                                           |                                                                                                 |
| 14                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34813-414                                                                                     | 34813-964                                                                                            | 34813-914                                                                                                           |                                                                                                 |
| 21                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34813-421                                                                                     | 34813-971                                                                                            | 34813-921                                                                                                           |                                                                                                 |
| 28                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34813-428                                                                                     | 34813-978                                                                                            | 34813-928                                                                                                           |                                                                                                 |
| 42                                                                                           |                                                                                               |                                             |                                                                                                  |                                                                                               | 34813-442                                                                                     | 34813-992                                                                                            | 34813-942                                                                                                           |                                                                                                 |
|                                                                                              | Depth 227 mm                                                                                  |                                             |                                                                                                  |                                                                                               |                                                                                               |                                                                                                      |                                                                                                                     |                                                                                                 |
| Dimension drawings see page                                                                  | 7.80                                                                                          | 7.80                                        | 7.80                                                                                             | 7.80                                                                                          | 7.83                                                                                          | 7.83                                                                                                 | 7.83                                                                                                                | 7.82                                                                                            |

1) SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

## Frame type plug-in units PRO ServicePLUS

### Individual components

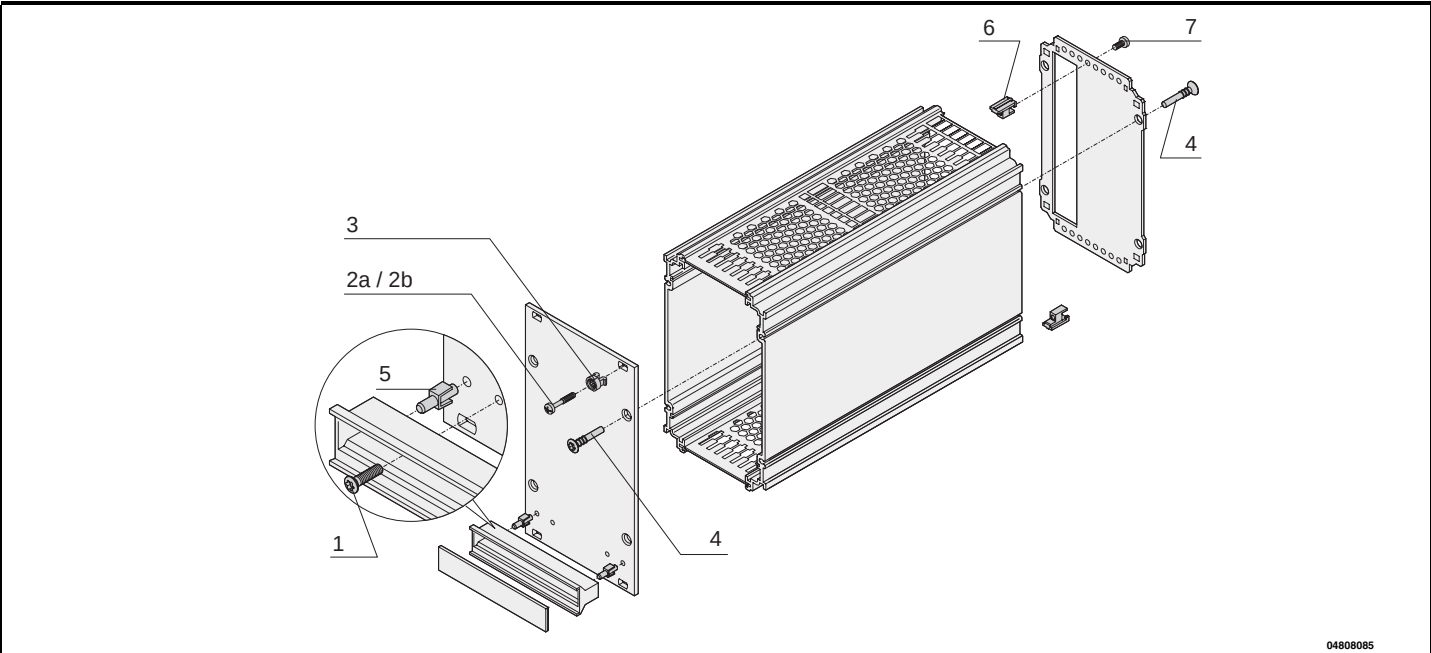
### Rear panels, assembly material

|                                                                                                                                                                              |                                                                                                                                                                                                           |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><br>04808124<br><br><b>Supplied quantity for assembly of 5 frame type plug-in units</b> | <b>Rear panel</b>                                                                                                                                                                                         |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  | <b>Assembly kit for five frame type plug-in units</b><br><br><br><br>04808123<br><br>10 rear panel fasteners, Zn die-cast;<br>10 fixing screws;<br>for connection of rear panel with cover plate (with perforation for guide rails)<br><br><b>PU 1 kit</b> | for complete assembly of five 3 U or 6 U frame type plug-in units: front panel, rear panel, side panel, cover plate and handle, description of piece parts see page 7.78<br><br><b>PU 1 kit</b> |
|                                                                                                                                                                              | <b>Without cut-out</b><br><br><br><br>04808073<br><br>St, 1.5 mm, zinc-plated<br><br><b>1 piece (SPQ 5)<sup>1)</sup></b> | <b>Cut-out for one connector</b><br><br><br><br>04808071<br><br>St, 1.5 mm, zinc-plated<br><br><b>1 piece (SPQ 5)<sup>1)</sup></b> | <b>Cut-out for multiple connectors</b><br><br><br><br>04808072<br><br>St, 1.5 mm, zinc-plated<br><br><b>1 piece (SPQ 5)<sup>1)</sup></b> | <b>Rear panel fastener</b> |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| Width                                                                                                                                                                        | <b>3 U Height</b>                                                                                                                                                                                         |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| HP                                                                                                                                                                           | Depth 167 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-208</b>                                                                                                                                                                                          | <b>34812-208</b>                                                                                                                                                                                                    | <b>34812-308</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-210</b>                                                                                                                                                                                          | <b>34812-210</b>                                                                                                                                                                                                    | <b>34812-310</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-212</b>                                                                                                                                                                                          | <b>34812-212</b>                                                                                                                                                                                                    | <b>34812-312</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-214</b>                                                                                                                                                                                          | <b>34812-214</b>                                                                                                                                                                                                    | <b>34812-314</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-221</b>                                                                                                                                                                                          | <b>34812-221</b>                                                                                                                                                                                                    | <b>34812-321</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-228</b>                                                                                                                                                                                          | <b>34812-228</b>                                                                                                                                                                                                    | <b>34812-328</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-242</b>                                                                                                                                                                                          | <b>34812-242</b>                                                                                                                                                                                                    | <b>34812-342</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-208</b>                                                                                                                                                                                          | <b>34812-208</b>                                                                                                                                                                                                    | <b>34812-308</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-210</b>                                                                                                                                                                                          | <b>34812-210</b>                                                                                                                                                                                                    | <b>34812-310</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-212</b>                                                                                                                                                                                          | <b>34812-212</b>                                                                                                                                                                                                    | <b>34812-312</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-214</b>                                                                                                                                                                                          | <b>34812-214</b>                                                                                                                                                                                                    | <b>34812-314</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-221</b>                                                                                                                                                                                          | <b>34812-221</b>                                                                                                                                                                                                    | <b>34812-321</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-228</b>                                                                                                                                                                                          | <b>34812-228</b>                                                                                                                                                                                                    | <b>34812-328</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-242</b>                                                                                                                                                                                          | <b>34812-242</b>                                                                                                                                                                                                    | <b>34812-342</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b>34812-742</b>                                                                                                                                                                                                    | <b>34812-842</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
|                                                                                                                                                                              | Depth 227 mm                                                                                                                                                                                              |                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 8                                                                                                                                                                            | <b>34813-708</b>                                                                                                                                                                                          | <b>34812-708</b>                                                                                                                                                                                                    | <b>34812-808</b>                                                                                                                                                                                                          | <b>24812-401</b>           | <b>24812-100</b> |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 10                                                                                                                                                                           | <b>34813-710</b>                                                                                                                                                                                          | <b>34812-710</b>                                                                                                                                                                                                    | <b>34812-810</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 12                                                                                                                                                                           | <b>34813-712</b>                                                                                                                                                                                          | <b>34812-712</b>                                                                                                                                                                                                    | <b>34812-812</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 14                                                                                                                                                                           | <b>34813-714</b>                                                                                                                                                                                          | <b>34812-714</b>                                                                                                                                                                                                    | <b>34812-814</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 21                                                                                                                                                                           | <b>34813-721</b>                                                                                                                                                                                          | <b>34812-721</b>                                                                                                                                                                                                    | <b>34812-821</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 28                                                                                                                                                                           | <b>34813-728</b>                                                                                                                                                                                          | <b>34812-728</b>                                                                                                                                                                                                    | <b>34812-828</b>                                                                                                                                                                                                          |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| 42                                                                                                                                                                           | <b>34813-742</b>                                                                                                                                                                                          | <b></b>                                                                                                                                                                                                             |                                                                                                                                                                                                                           |                            |                  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                 |

1) SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

Part no. includes one packing unit (PU); delivery is exclusively made in PU

## Frame type plug-in units PRO ServicePLUS

[illegible][illegible]

| Assembly kit                                                        | Item |                                                                                                 | Required quantity per plug-in unit                                                                        | Description                                                                                | Qty/PU   | Part no.         |
|---------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------|------------------|
| Torx panhead screw, M2.5 x 10, St, zinc-plated, self-forming thread | 1    | <br>aza45940 | 2                                                                                                         | Assembly of handle on front panel                                                          | 100      | <b>24560-179</b> |
| Collar screw with pozidrive/slot M2.5 x 11, St, nickel-plated       | 2a   | <br>aza46586 | 4 / 6*<br><br>06107050 | Mounting of front panel on horizontal rail with threaded insert pushed in to front         | 100      | <b>21100-748</b> |
| Collar screw with pozidrive/slot M2.5 x 12,3, St, nickel-plated     | 2b   | <br>aza46586 | 4 / 6*<br><br>06107051 | Mounting of front panel on horizontal rail with threaded insert pushed in to rear          | 100      | <b>21101-101</b> |
| Plastic sleeves for form hole 5.9 x 3.3, PA, UL 94 V-2, grey        | 3    | <br>aza45933 | 4 / 6*                                                                                                    | Is needed to fix collar screws                                                             | 100      | <b>21100-464</b> |
| Recessed Torx panhead screw 3 x 20, St, nickel-plated               | 4    | <br>06708052 | 8                                                                                                         | Assembly of front panel and rear panel on extruded side panel/rear extrusion of side panel | 100      | <b>24812-501</b> |
| Clip for cantilever plastic handle PPE UL 94 V-0, black             | 5    | <br>04608090 | 2                                                                                                         | Alignment aid for handle on front panel                                                    | 100      | <b>21101-239</b> |
| Rear panel fastener Zn die-cast                                     | 6    | <br>04808128 | 2 ...                                                                                                     | To stabilise rear panel                                                                    | 100      | <b>24812-402</b> |
| Torx panhead screw M2.5 x 10, St, nickel-plated                     | 7    | <br>aza45940 | 2 ...                                                                                                     | To fix rear panel fastener or board fixture                                                | 100      | <b>24560-148</b> |
| Board support (slot 1) Zn die-cast                                  |      | <br>04808126 | 2 ...                                                                                                     | Board support (slot 1) see page 7.79                                                       | 50 pairs | <b>24812-202</b> |
| Board support (from slot 2) Zn die-cast                             |      | <br>04808127 | 2 ...                                                                                                     | Board support (from slot 2) see page 7.79                                                  | 50 pairs | <b>24812-302</b> |
| Torx panhead screw M2.5 x 6, St, nickel-plated                      |      | <br>aza45940 | 2 ...                                                                                                     | Is needed for board fixture without connector see page 7.79                                | 100      | <b>24560-178</b> |

\* in 42 HP EMC shielded frame type plug-in units

■ Further collar screws and sleeves see page 7.100

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D 03/2009

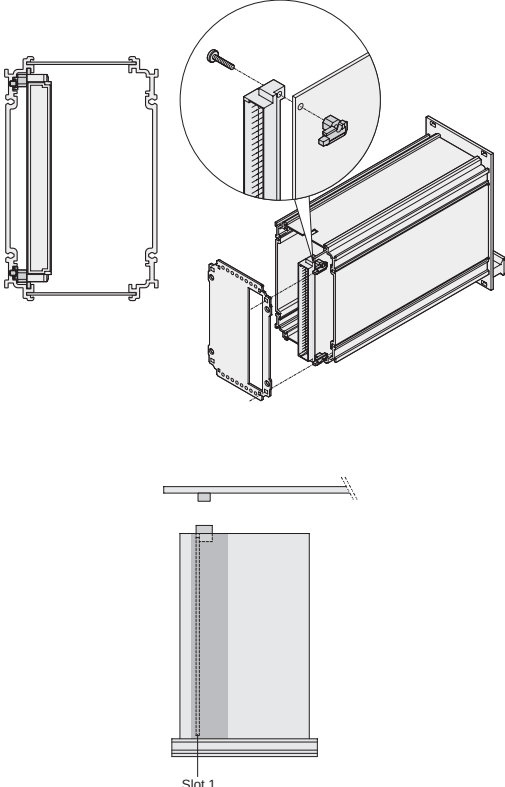
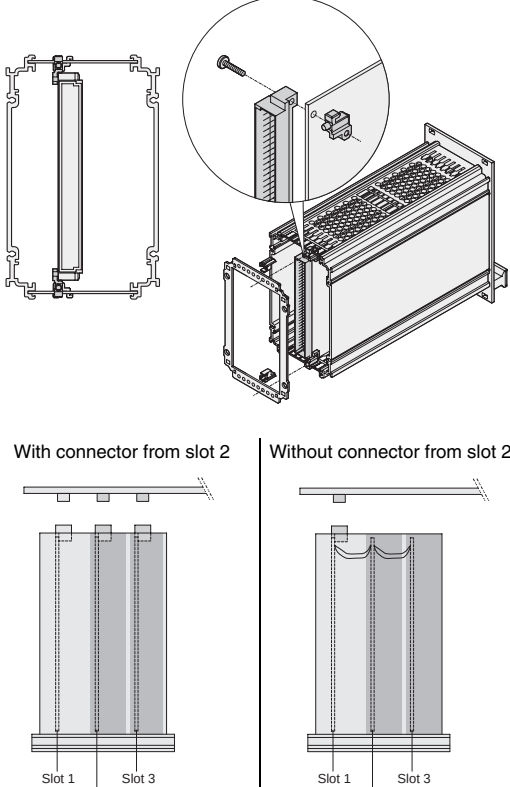
**Part number in bold face type: ready for despatch within 2 working days**  
Part number in normal type: ready for despatch within 10 working days

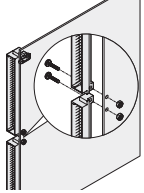
Part number in bold type: ready for despatch within 2 working days  
Part number in normal type: ready for despatch within 10 working days

# Frame type plug-in units PRO ServicePLUS

## Individual components

## Board fixing

|        | Board mounting slot 1                                                                                                                                                                                                                                                                            | PCB fixing from slot 2                                                                                                                                                                                                                            |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |  <p>04808118 04808109 04808129</p> <p>Zn die-cast, Torx panhead screw M2.5 x 10;<br/>PCB is pushed into the guiding groove of the left side panel/<br/>side panel rear angle,<br/>is fixed with rear panel</p> |  <p>04808119 04808110 bga42785 kaa46417</p> <p>Zn die-cast, Torx panhead screw M2.5 x 10;<br/>PCB is pushed into guide rail,<br/>is fixed with rear panel</p> |
| Height | PU 5 pair                                                                                                                                                                                                                                                                                        | PU 5 pair                                                                                                                                                                                                                                         |
| 3 U    | <b>24812-201</b>                                                                                                                                                                                                                                                                                 | <b>24812-301</b>                                                                                                                                                                                                                                  |
| 6 U    | <b>24812-201</b>                                                                                                                                                                                                                                                                                 | <b>24812-301</b>                                                                                                                                                                                                                                  |

| Assembly kit                                                                                                                                     |                                                                                                                             | With connector from slot 2 | Without connector from slot 2 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------|
| Torx panhead screw, M2.5 x 6, St, nickel-plated, PU 100 pieces; is needed for board fixture without connector                                    |  <p><b>24560-178</b></p> <p>aza45940</p> | —                          | <b>24560-178</b>              |
| Connector mounting on PCB, for 6 U frame type plug-in units (centre)<br>Torx panhead screw M2.5 x 10, washer M2.5;<br>PU 10 pieces (screw + nut) |  <p><b>24812-600</b></p> <p>04808120</p> | <b>24812-600</b>           |                               |

# Frame type plug-in units PRO ServicePLUS

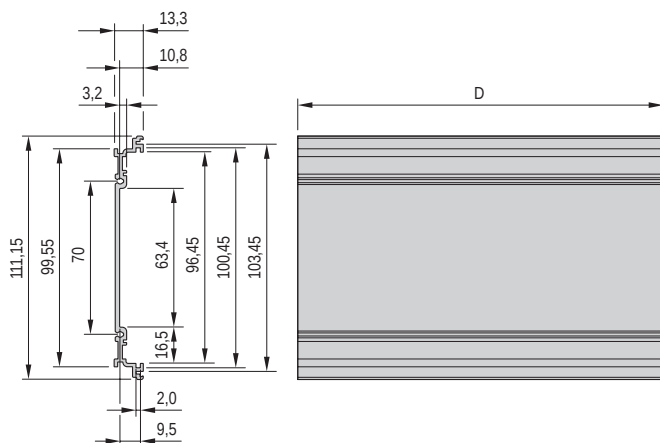
## Dimensions

## Side panels

### Extruded side panels

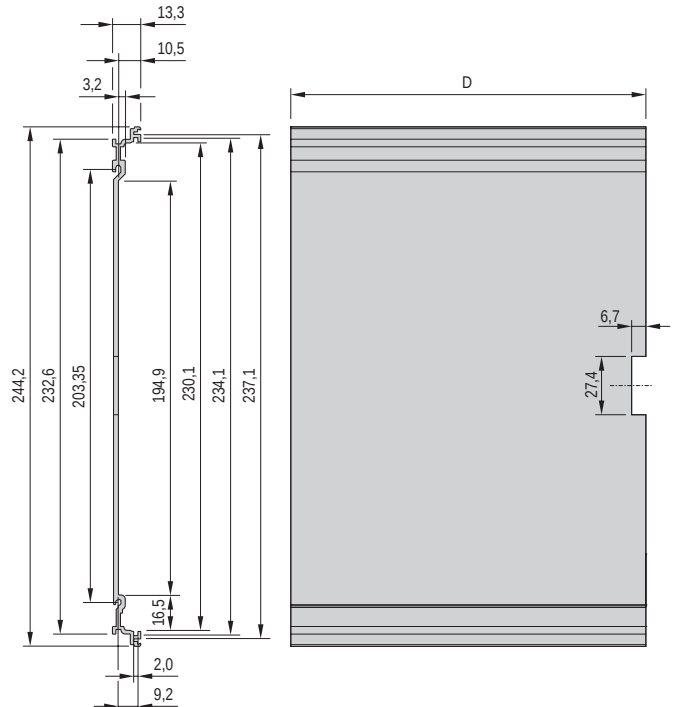
3 U

6 U



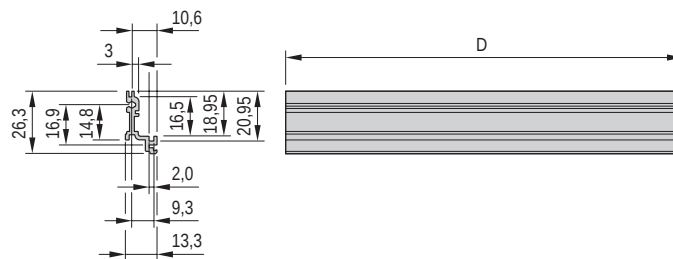
Depth D = 167/227 mm

04808101



04808102

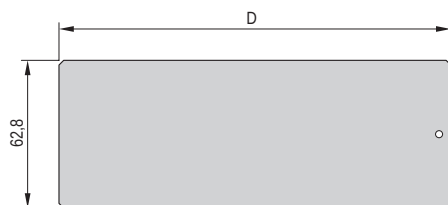
### Side panel rear angle



Depth D = 167/227 mm

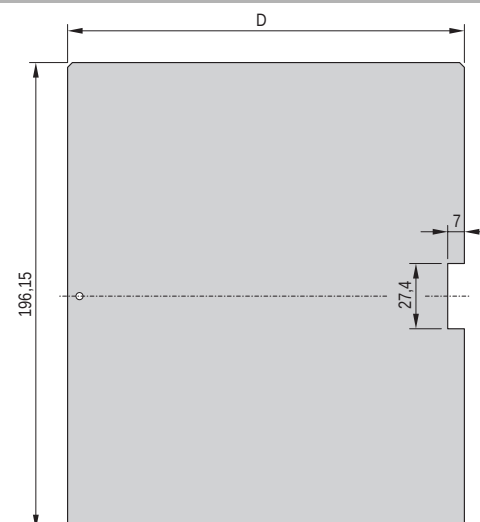
04808103

### Side panels



3 U for side panel rear angle

04808100



6 U for side panel rear angle

04808099



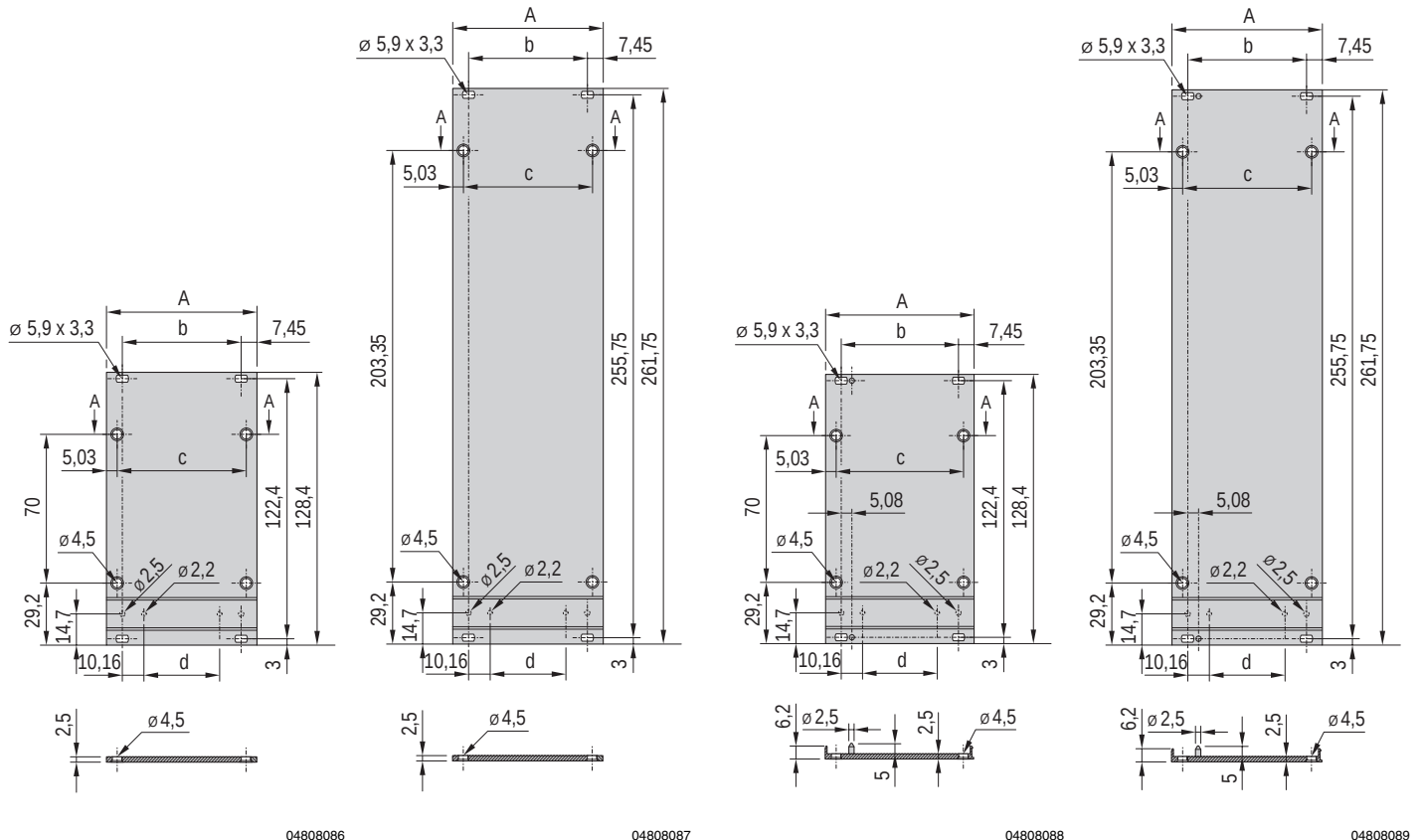
# Frame type plug-in units PRO ServicePLUS

## Dimension drawings front panels

Unshielded  
3 U

6 U

Shieldable, for EMC textile gasket  
3 U 6 U



04808086

04808087

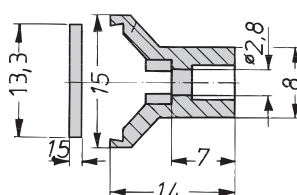
04808088

04808089

Dimensions table

|       | A      | b      | c      | d      |
|-------|--------|--------|--------|--------|
| Width | mm     | mm     | mm     | mm     |
| 8 HP  | 40.30  | 25.40  | 30.24  | 5.08   |
| 10 HP | 50.46  | 35.56  | 40.40  | 15.24  |
| 12 HP | 60.62  | 45.72  | 50.56  | 25.40  |
| 14 HP | 70.78  | 55.88  | 60.72  | 35.56  |
| 21 HP | 106.34 | 91.44  | 96.28  | 71.12  |
| 28 HP | 141.90 | 127.00 | 131.84 | 106.68 |
| 42 HP | 213.02 | 198.12 | 202.96 | 177.80 |

## Dimensions drawing front handle



A4-328e

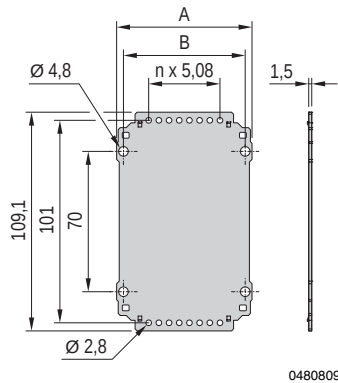
Dimensions table

| width | width |
|-------|-------|
| HP    | mm    |
| 8 HP  | 39.2  |
| 10 HP | 49.4  |
| 12 HP | 59.6  |
| 14 HP | 69.7  |
| 21 HP | 105.2 |
| 28 HP | 140.8 |
| 42 HP | 212.0 |

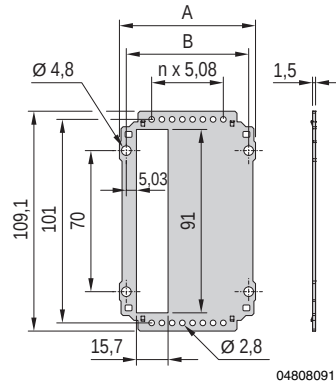
# Frame type plug-in units PRO ServicePLUS

## Dimension drawings rear panel 3 U

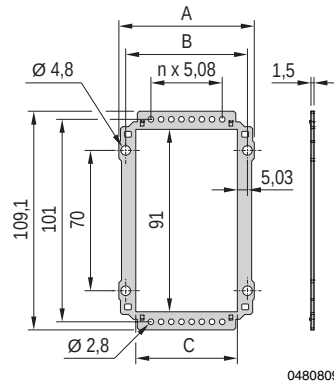
Without cut-out



For single connector



For multiple connectors

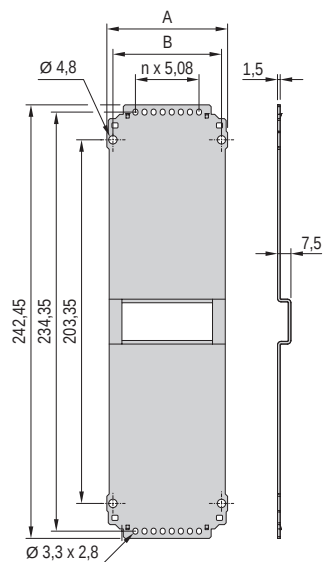


Dimensions table

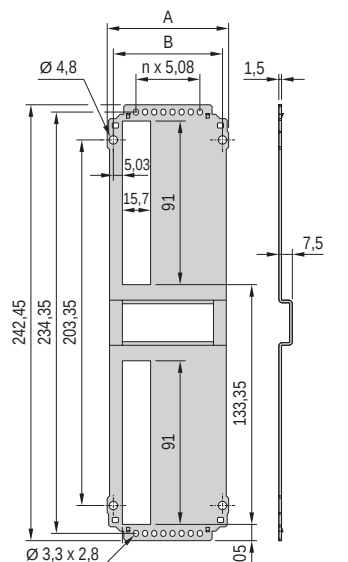
| HP    | A<br>mm | B<br>mm | C<br>mm |
|-------|---------|---------|---------|
| 8 HP  | 37.04   | 30.24   | 20.18   |
| 10 HP | 47.20   | 40.40   | 30.34   |
| 12 HP | 57.36   | 50.56   | 40.50   |
| 14 HP | 67.52   | 60.72   | 50.66   |
| 21 HP | 103.08  | 96.28   | 86.22   |
| 28 HP | 138.64  | 131.84  | 121.78  |
| 42 HP | 209.76  | 202.96  | 192.90  |

## Dimension drawings rear panel 6 U

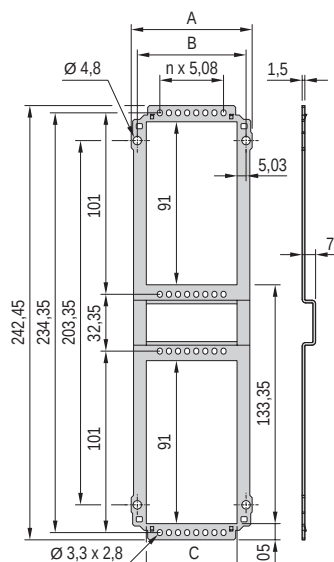
Without cut-out



For single connector



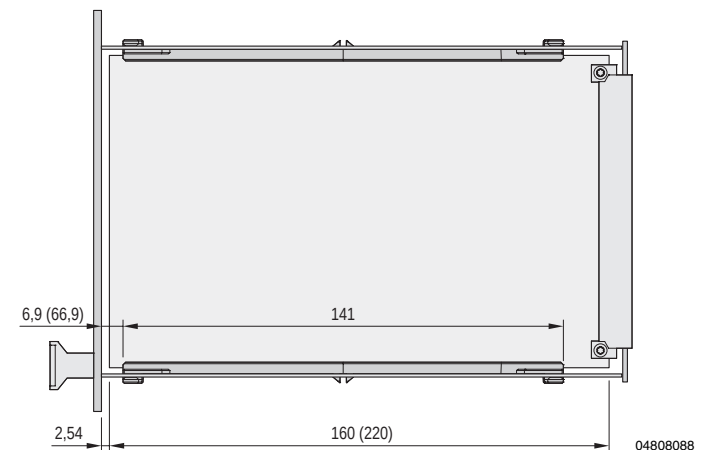
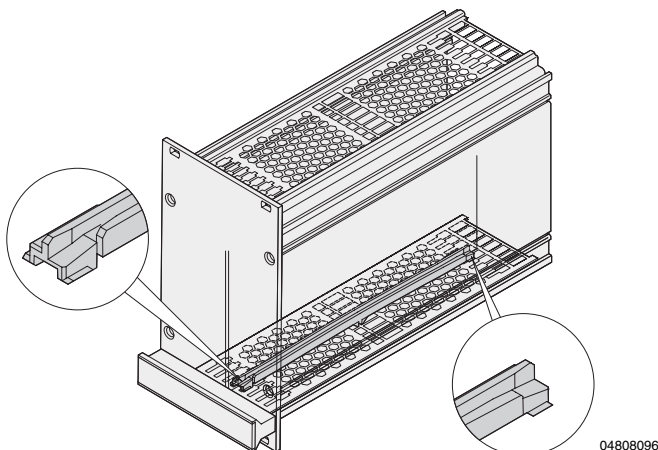
For multiple connectors



Dimensions table

| HP    | A<br>mm | B<br>mm | C<br>mm |
|-------|---------|---------|---------|
| 8 HP  | 37.04   | 30.24   | 20.18   |
| 10 HP | 47.20   | 40.40   | 30.34   |
| 12 HP | 57.36   | 50.56   | 40.50   |
| 14 HP | 67.52   | 60.72   | 50.66   |
| 21 HP | 103.08  | 96.28   | 86.22   |
| 28 HP | 138.64  | 131.84  | 121.78  |
| 42 HP | 209.76  | 202.96  | 192.90  |

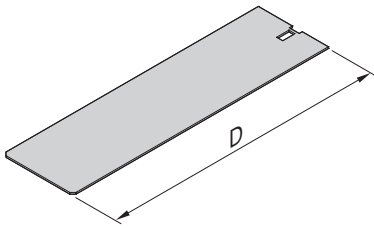
## Dimension drawings guide rail



# Frame type plug-in units PRO ServicePLUS

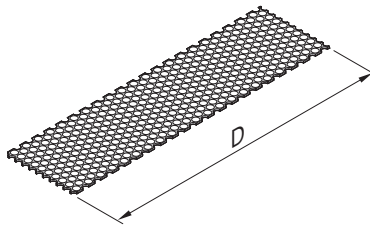
## Dimension drawings Cover plates

without perforation



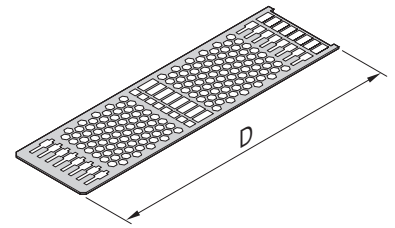
04808104

with perforation



04808106

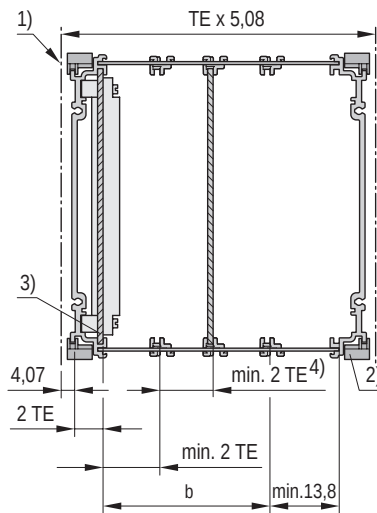
for guide rail mounting



04808105

D = 167/227 mm

## Dimension drawings assembly instructions for frame type plug-in units



04808107

■ Mounting pitch for guide rails: 1 HP

■ Min. distance between 2 guide rails: 2 HP

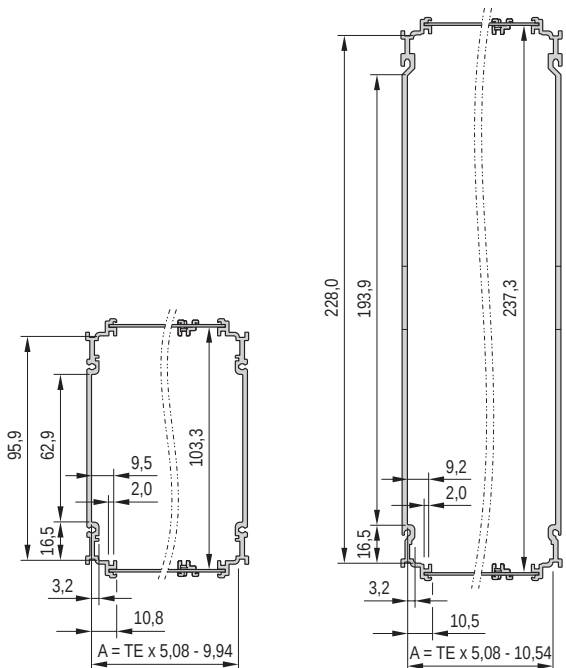
| Width of frame type plug-in unit | b      | Max. number of PCBs |
|----------------------------------|--------|---------------------|
| HP                               | mm     |                     |
| 8                                | —      | 1                   |
| 10                               | 10.16  | 2                   |
| 12                               | 20.32  | 3                   |
| 14                               | 30.48  | 4                   |
| 21                               | 60.96  | 7                   |
| 28                               | 101.6  | 11                  |
| 42                               | 172.72 | 18                  |

TE = HP = F

1) Division line; 2) Guide rail rotated 180° against standard position;

3) The first PCB is fixed in extruded side panel, in standard position (slot 1); 4) min. 1 HP if slot 1 is unused

## Dimension drawings assembly space frame type plug-in unit 3 U/6 U



04808097

### Dimensions table

| height | width | A      |
|--------|-------|--------|
| U      | HP    | mm     |
| 3      | 8     | 30.70  |
| 3      | 10    | 40.86  |
| 3      | 12    | 51.02  |
| 3      | 14    | 61.18  |
| 3      | 21    | 96.74  |
| 3      | 28    | 132.30 |
| 3      | 42    | 203.42 |
| 6      | 8     | 31.10  |
| 6      | 10    | 40.26  |
| 6      | 12    | 50.42  |
| 6      | 14    | 60.58  |
| 6      | 21    | 96.14  |
| 6      | 28    | 131.70 |
| 6      | 42    | 208.82 |

04808098

## Frame type plug-in units PRO with hood



04808007



ServicePLUS see page 7.74

### Frame type plug-in units PRO with hood, 3/6 U, front panel shielded (textile gasket)

- Protects a PCB against mechanical damage and deflects electrostatic discharge; for euroboard formats, board height: 100 mm (3 U), 233.35 mm (6 U), board depth: 160 mm, 220 mm
- Fits all subracks and the following case series: ratiopacPRO/-air, propacPRO and compacPRO
- Suitable connectors in accordance with EN 60603 (DIN 41612), types: B, C, D, F, H, R
- 2 installation depths: 167 mm and 227 mm

**NEW**

#### Delivery comprises (kit)

| Item | Qty | Description                                                                                  |
|------|-----|----------------------------------------------------------------------------------------------|
| 1    | 1   | Front panel, Al extrusion, 2.5 mm, front anodised, rear conductive, alignment pin pressed-in |
| 2    | 1   | Handle, grey, PPE, UL 94 V-1                                                                 |
| 3    | 1   | Side panel, Al extrusion, colourless passivated, with groove for one PCB                     |
| 4    | 1   | Hood, Al, 1 mm, with perforation, rear panel integrated                                      |
| 5    | 1   | EMC sealing (textile)                                                                        |
| 6    | 1   | Assembly kit (incl. PCB fixing for slot 1)                                                   |

#### Order Information

|                 |                 | 5 HP            |                 | 6 ... 14 HP     |                 | Height U | Width HP | Depth = 167 mm<br>Part no. | Depth = 227 mm<br>Part no. |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------|----------|----------------------------|----------------------------|
| <p>04808077</p> | <p>04808115</p> | <p>04808114</p> | <p>04808114</p> | <p>04808115</p> | <p>04808115</p> | 3        | 5        | <b>24812-005</b>           | <b>24812-055</b>           |
|                 |                 |                 |                 |                 |                 | 3        | 6        | <b>24812-006</b>           | <b>24812-056</b>           |
|                 |                 |                 |                 |                 |                 | 3        | 7        | <b>24812-007</b>           | <b>24812-057</b>           |
|                 |                 |                 |                 |                 |                 | 3        | 10       | <b>24812-010</b>           | <b>24812-060</b>           |
|                 |                 |                 |                 |                 |                 | 3        | 12       | <b>24812-012</b>           | <b>24812-062</b>           |
|                 |                 |                 |                 |                 |                 | 3        | 14       | <b>24812-014</b>           | <b>24812-064</b>           |
| <p>04808077</p> | <p>04808115</p> | <p>04808114</p> | <p>04808114</p> | <p>04808115</p> | <p>04808115</p> | 6        | 5        | <b>24812-505</b>           | <b>24812-555</b>           |
|                 |                 |                 |                 |                 |                 | 6        | 6        | <b>24812-506</b>           | <b>24812-556</b>           |
|                 |                 |                 |                 |                 |                 | 6        | 7        | <b>24813-507</b>           | <b>24813-557</b>           |
|                 |                 |                 |                 |                 |                 | 6        | 10       | <b>24813-510</b>           | <b>24813-560</b>           |
|                 |                 |                 |                 |                 |                 | 6        | 12       | <b>24813-512</b>           | <b>24813-562</b>           |
|                 |                 |                 |                 |                 |                 | 6        | 14       | <b>24813-514</b>           | <b>24813-564</b>           |

■ Dimension drawings see from page 7.86

## Frame type plug-in units PRO with hood

### Plug-in units PRO with hood, 3/6 U, front panel unshielded



04808002



ServicePLUS see page 7.74

- Protects a PCB against mechanical damage and deflects electrostatic discharge; for euroboard formats, board height: 100 mm (3 U), 233.35 mm (6 U), board depth: 160 mm, 220 mm
- Fits all subracks and the following case series: ratiopacPRO/-air, propacPRO and compacPRO
- Suitable connectors in accordance with EN 60603 (DIN 41612), types: B, C, D, F, H, R
- 2 installation depths: 167 mm and 227 mm

# NEW

#### Delivery comprises (kit)

| Item | Qty | Description                                                              |
|------|-----|--------------------------------------------------------------------------|
| 1    | 1   | Front panel, Al, 2.5 mm, anodised, cut edges plain                       |
| 2    | 1   | Handle, grey, PPE, UL 94 V-1                                             |
| 3    | 1   | Side panel, Al extrusion, colourless passivated, with groove for one PCB |
| 4    | 1   | Hood, Al, 1 mm, with perforation, rear panel integrated                  |
| 5    | 1   | Assembly kit (incl. PCB fixing for slot 1)                               |

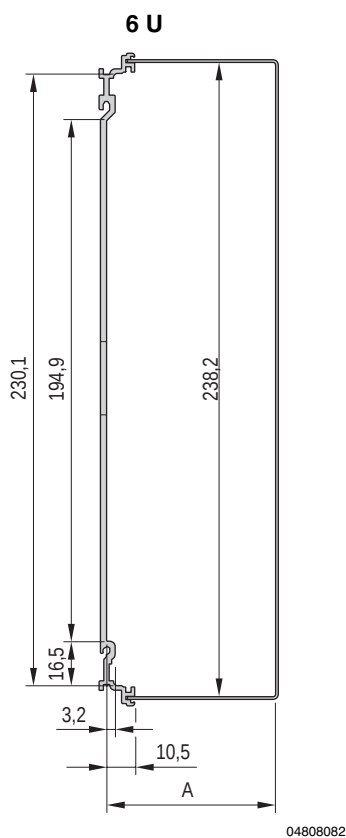
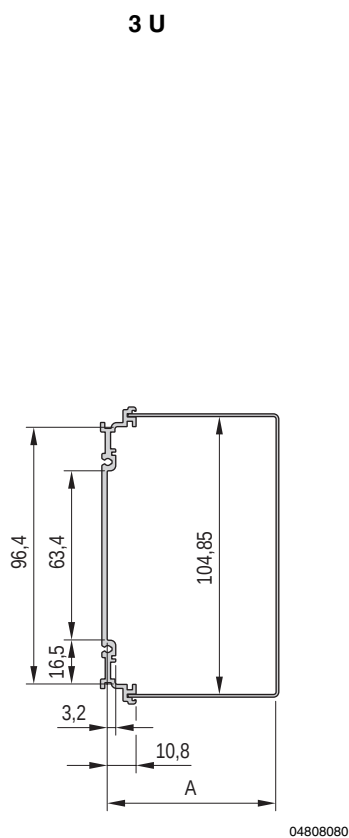
#### Order Information

| 5 HP |  | 6 ... 14 HP |  | Height | Width | Depth = 167 mm   | Depth = 227 mm   |
|------|--|-------------|--|--------|-------|------------------|------------------|
|      |  |             |  | U      | HP    | Part no.         | Part no.         |
|      |  |             |  | 3      | 5     | <b>24812-005</b> | <b>24812-055</b> |
|      |  |             |  | 3      | 6     | <b>24812-006</b> | <b>24812-056</b> |
|      |  |             |  | 3      | 7     | <b>24812-007</b> | <b>24812-057</b> |
|      |  |             |  | 3      | 10    | <b>24812-010</b> | <b>24812-060</b> |
|      |  |             |  | 3      | 12    | <b>24812-012</b> | <b>24812-062</b> |
|      |  |             |  | 3      | 14    | <b>24812-014</b> | <b>24812-064</b> |
|      |  |             |  | 6      | 5     | <b>24812-505</b> | <b>24812-555</b> |
|      |  |             |  | 6      | 6     | <b>24812-506</b> | <b>24812-556</b> |
|      |  |             |  | 6      | 7     | <b>24812-507</b> | <b>24812-557</b> |
|      |  |             |  | 6      | 10    | <b>24812-510</b> | <b>24812-560</b> |
|      |  |             |  | 6      | 12    | <b>24812-512</b> | <b>24812-562</b> |
|      |  |             |  | 6      | 14    | <b>24812-514</b> | <b>24812-564</b> |

■ Dimension drawings see from page 7.86

## Frame type plug-in units PRO with hood

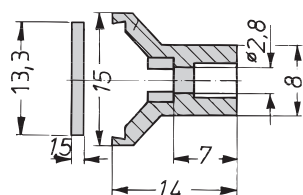
### Dimension drawings cross-section frame type plug-in units PRO with hood 3 U/6 U



**Dimensions table**

| Height | Width | A     |
|--------|-------|-------|
| U      | HP    | mm    |
| 3      | 5     | 17.52 |
| 3      | 6     | 22.60 |
| 3      | 7     | 27.68 |
| 3      | 10    | 42.92 |
| 3      | 12    | 53.08 |
| 3      | 14    | 63.24 |
| 6      | 5     | 17.22 |
| 6      | 6     | 22.30 |
| 6      | 7     | 27.38 |
| 6      | 10    | 42.62 |
| 6      | 12    | 57.78 |
| 6      | 14    | 62.94 |

### Dimension drawing front handle



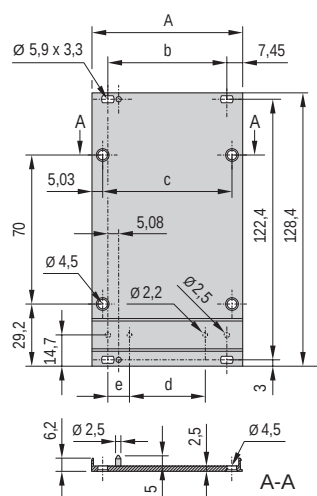
**Dimensions table**

| width | width |
|-------|-------|
| HP    | mm    |
| 5 HP  | 24.0  |
| 6 HP  | 29.0  |
| 7 HP  | 34.1  |
| 10 HP | 49.4  |
| 12 HP | 59.6  |
| 14 HP | 69.7  |

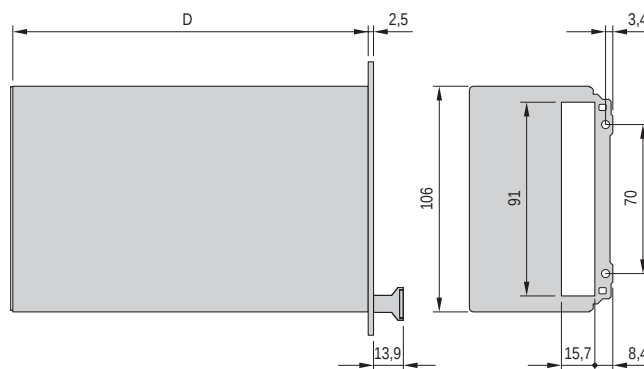
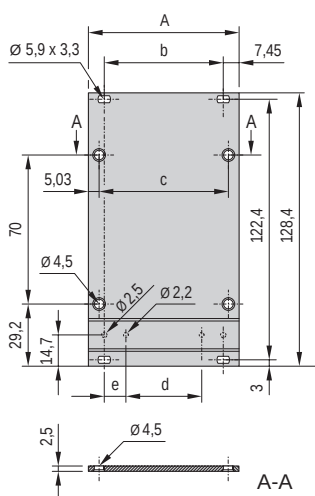
# Frame type plug-in units PRO with hood

## Dimension drawings 3/6 U frame type plug-in units PRO with hood

**3 U** Front panel shielded

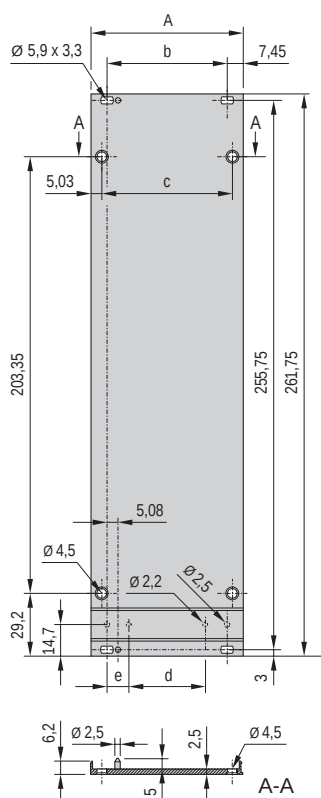


Front panel unshielded

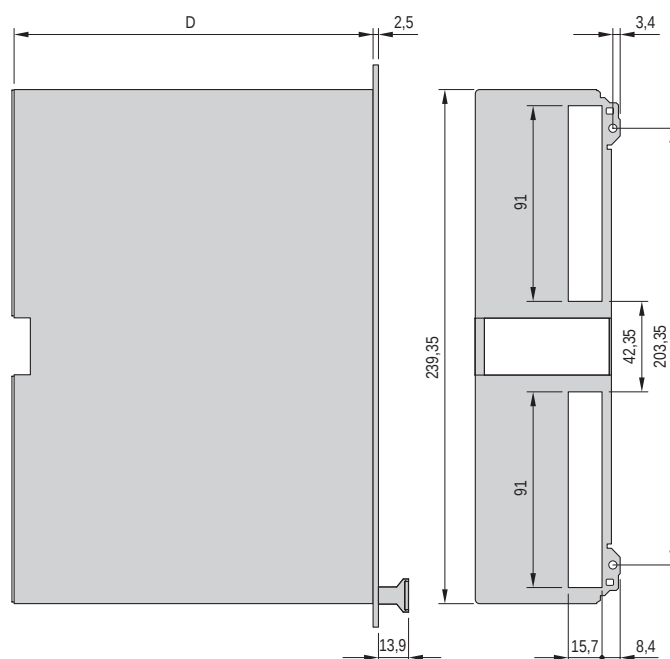
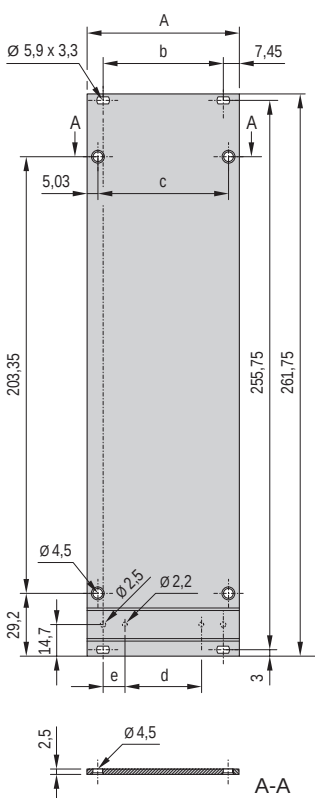


04808111

**6 U** Front panel shielded



Front panel unshielded



04808112

**Dimensions table**

| Width<br>HP | A<br>mm | b<br>mm | c<br>mm | d<br>mm | e<br>mm | Depth D<br>mm |
|-------------|---------|---------|---------|---------|---------|---------------|
| 5           | 25.06   | -       | 15.00   | -       | 5.08    | 167/227       |
| 6           | 30.14   | -       | 20.08   | -       | 10.14   |               |
| 7           | 35.22   | -       | 25.16   | -       | 10.14   |               |
| 10          | 50.46   | 35.56   | 40.40   | 15.24   | 10.14   |               |
| 12          | 60.62   | 45.72   | 50.56   | 25.40   | 10.14   |               |
| 14          | 70.78   | 55.88   | 60.72   | 35.56   | 10.14   |               |



## HF frame type plug-in units

### HF frame type plug-in units, 3 U kits, front panel shielded



04892005



ServicePLUS see page 7.74

- With high shielding from high-frequency radiation
- Modules to accept boards in HP grid increments
- Module body solid on all sides, with cooling fins

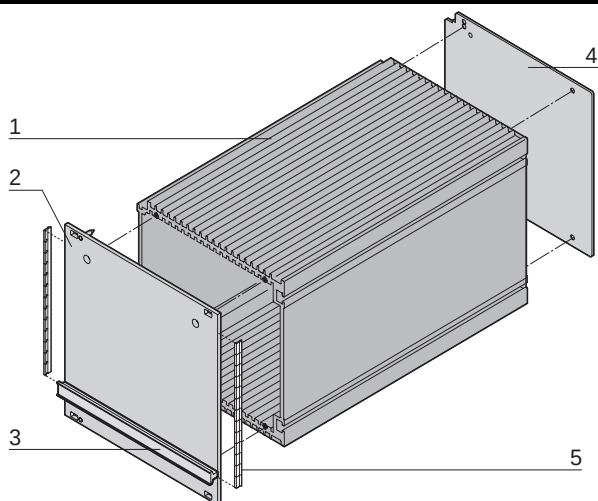
#### Delivery comprises (kit)

| Item | Qty | Description                                                                                                                                             |
|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 1   | Body tube, Al extrusion, black anodised, cut edges plain                                                                                                |
| 2    | 1   | Front panel, Al, 2.5 mm, with lateral grooves for EMC stainless steel gasket, alignment pin pressed-in, front anodised, rear iridescent green chromated |
| 3    | 1   | Plastic handle, trapezium shape, PPE, grey, identification plate, Al, anodised, cut edges plain                                                         |
| 4    | 1   | Rear panel, Al, 1.5 mm, etched without cut-outs                                                                                                         |
| 5    | 2   | EMC sealing (steel, stainless)                                                                                                                          |
| 6    | 1   | Assembly kit                                                                                                                                            |

#### Technical data

| HF plug-in unit | Thermal resistance K/W |                |
|-----------------|------------------------|----------------|
| HP              | Depth = 167 mm         | Depth = 227 mm |
| 7               | 1.68                   | 1.51           |
| 10              | 1.62                   | 1.46           |
| 12              | 1.56                   | 1.40           |
| 14              | 1.50                   | 1.35           |
| 21              | 1.06                   | 0.95           |
| 28              | 0.94                   | 0.85           |

#### Order Information



04802050

| Height U | Width HP | Depth = 167 mm<br>Part no. | Depth = 227 mm<br>Part no. |
|----------|----------|----------------------------|----------------------------|
| 3        | 7        | <b>20809-529</b>           | <b>20809-536</b>           |
| 3        | 10       | <b>20809-530</b>           | <b>20809-537</b>           |
| 3        | 12       | <b>20809-531</b>           | <b>20809-538</b>           |
| 3        | 14       | <b>20809-532</b>           | <b>20809-539</b>           |
| 3        | 21       | <b>20809-533</b>           | <b>20809-540</b>           |
| 3        | 28       | <b>20809-534</b>           | <b>20809-541</b>           |

#### Note

- Dimension drawings see from page 7.92



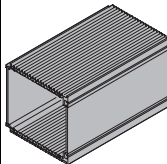
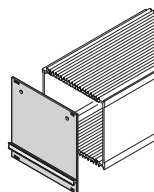
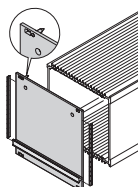
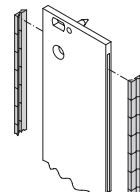
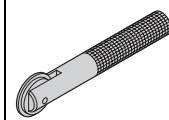
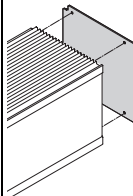
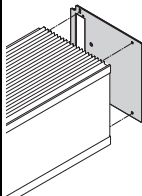
For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

# HF frame type plug-in units ServicePLUS

## Individual components

## HF body tube, front panels with handle, rear panels

### Order Information

|                             |          | HF body tube                                                                                      | Shieldable front panel, with handle                                                               | Shieldable front panel, with handle                                                                                                                                                                       |                                                                                                   |                                                                                                     | Rear panel                                                                                          |                                                                                                                              |
|-----------------------------|----------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
|                             |          | <br><br>KAA45832 | <br><br>KAA45831 | <br><br>04807074                                                                                                         | <br><br>bga45760 | <br><br>aza45937 | <br><br>04807075 | <br><br>KAA45834                          |
|                             |          | Al extrusion, black anodised, cut edges plain                                                     | Al, 2.5 mm, front anodised, rear iridescent green chromated; static handle, grey, PPE, UL 94 V-1  | Al, 2.5 mm, front anodised, rear iridescent green chromated, with lateral grooves for stainless steel EMC gasket (please order separately), alignment pin pressed-in, static handle, grey, PPE, UL 94 V-1 | inserted laterally into the slots of the front panel                                              | for mounting the EMC stainless steel I gasket                                                       | Al, 1.5 mm, etched                                                                                  | Al, 2.5 mm, etched, cut-out for connector types EN 60603 (DIN 41612); 7 HP: B, C, D, R; 10 - 28 HP: B, C, D, R, F, H, MF, MH |
| Height U                    | Width HP | 1 piece (SPQ 5) <sup>1)</sup>                                                                     | 1 piece (SPQ 5) <sup>1)</sup>                                                                     | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                                                                                             | PU 100 pieces                                                                                     | 1 piece                                                                                             | 1 piece (SPQ 5) <sup>1)</sup>                                                                       | 1 piece (SPQ 5) <sup>1)</sup>                                                                                                |
|                             |          | Depth 167 mm                                                                                      |                                                                                                   |                                                                                                                                                                                                           |                                                                                                   |                                                                                                     |                                                                                                     |                                                                                                                              |
| 3                           | 7        | <b>30809-667</b>                                                                                  | <b>20838-001</b>                                                                                  | <b>20838-093</b>                                                                                                                                                                                          | <b>21101-705</b>                                                                                  | <b>24560-270</b>                                                                                    | <b>30809-635</b>                                                                                    | <b>30809-641</b>                                                                                                             |
|                             | 10       | <b>30809-677</b>                                                                                  | <b>20838-002</b>                                                                                  | <b>20838-094</b>                                                                                                                                                                                          |                                                                                                   |                                                                                                     | <b>30809-636</b>                                                                                    | <b>30809-642</b>                                                                                                             |
|                             | 12       | <b>30809-675</b>                                                                                  | <b>20838-003</b>                                                                                  | <b>20838-095</b>                                                                                                                                                                                          |                                                                                                   |                                                                                                     | <b>30809-637</b>                                                                                    | <b>30809-643</b>                                                                                                             |
|                             | 14       | <b>30809-673</b>                                                                                  | <b>20838-004</b>                                                                                  | <b>20838-096</b>                                                                                                                                                                                          |                                                                                                   |                                                                                                     | <b>30809-638</b>                                                                                    | <b>30809-644</b>                                                                                                             |
|                             | 21       | <b>30809-671</b>                                                                                  | <b>20838-005</b>                                                                                  | <b>20838-097</b>                                                                                                                                                                                          |                                                                                                   |                                                                                                     | <b>30809-639</b>                                                                                    | <b>30809-645</b>                                                                                                             |
|                             | 28       | <b>30809-669</b>                                                                                  | <b>20838-006</b>                                                                                  | <b>20838-098</b>                                                                                                                                                                                          |                                                                                                   |                                                                                                     | <b>30809-640</b>                                                                                    | <b>30809-646</b>                                                                                                             |
|                             |          | Depth 227 mm                                                                                      |                                                                                                   |                                                                                                                                                                                                           |                                                                                                   |                                                                                                     |                                                                                                     |                                                                                                                              |
| 3                           | 7        | <b>30809-668</b>                                                                                  | <b>20838-001</b>                                                                                  | <b>20838-093</b>                                                                                                                                                                                          | <b>21101-705</b>                                                                                  | <b>24560-270</b>                                                                                    | <b>30809-635</b>                                                                                    | <b>30809-641</b>                                                                                                             |
|                             | 10       | <b>30809-678</b>                                                                                  | <b>20838-002</b>                                                                                  | <b>20838-094</b>                                                                                                                                                                                          |                                                                                                   |                                                                                                     | <b>30809-636</b>                                                                                    | <b>30809-642</b>                                                                                                             |
|                             | 12       | <b>30809-676</b>                                                                                  | <b>20838-003</b>                                                                                  | <b>20838-095</b>                                                                                                                                                                                          |                                                                                                   |                                                                                                     | <b>30809-637</b>                                                                                    | <b>30809-643</b>                                                                                                             |
|                             | 14       | <b>30809-674</b>                                                                                  | <b>20838-004</b>                                                                                  | <b>20838-096</b>                                                                                                                                                                                          |                                                                                                   |                                                                                                     | <b>30809-638</b>                                                                                    | <b>30809-644</b>                                                                                                             |
|                             | 21       | <b>30809-672</b>                                                                                  | <b>20838-005</b>                                                                                  | <b>20838-097</b>                                                                                                                                                                                          |                                                                                                   |                                                                                                     | <b>30809-639</b>                                                                                    | <b>30809-645</b>                                                                                                             |
|                             | 28       | <b>30809-670</b>                                                                                  | <b>20838-006</b>                                                                                  | <b>20838-098</b>                                                                                                                                                                                          |                                                                                                   |                                                                                                     | <b>30809-640</b>                                                                                    | <b>30809-646</b>                                                                                                             |
|                             |          | Depth 1000 mm (without thread for front panel and rear panel)                                     |                                                                                                   |                                                                                                                                                                                                           |                                                                                                   |                                                                                                     |                                                                                                     |                                                                                                                              |
| 3                           | 7        | <b>30809-679</b>                                                                                  |                                                                                                   |                                                                                                                                                                                                           |                                                                                                   |                                                                                                     |                                                                                                     |                                                                                                                              |
|                             | 10       | <b>30809-698</b>                                                                                  |                                                                                                   |                                                                                                                                                                                                           |                                                                                                   |                                                                                                     |                                                                                                     |                                                                                                                              |
|                             | 12       | <b>30809-699</b>                                                                                  | —                                                                                                 | —                                                                                                                                                                                                         | —                                                                                                 | —                                                                                                   | —                                                                                                   | —                                                                                                                            |
|                             | 14       | <b>30809-680</b>                                                                                  |                                                                                                   |                                                                                                                                                                                                           |                                                                                                   |                                                                                                     |                                                                                                     |                                                                                                                              |
|                             | 21       | <b>30809-681</b>                                                                                  |                                                                                                   |                                                                                                                                                                                                           |                                                                                                   |                                                                                                     |                                                                                                     |                                                                                                                              |
|                             | 28       | <b>30809-682</b>                                                                                  |                                                                                                   |                                                                                                                                                                                                           |                                                                                                   |                                                                                                     |                                                                                                     |                                                                                                                              |
| Dimension drawings see page |          | 7.92                                                                                              | 7.93                                                                                              |                                                                                                                                                                                                           |                                                                                                   |                                                                                                     | 7.92                                                                                                |                                                                                                                              |

1) SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

Part no. includes one packing unit (PU); delivery is exclusively made in PU



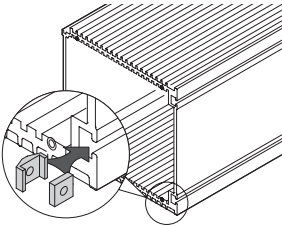
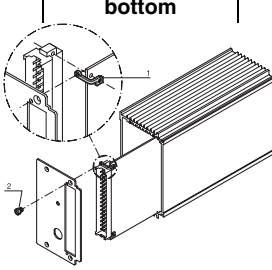
For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

# HF frame type plug-in units ServicePLUS

## Individual components

## Slide nuts, fixing for PCBs, mounting kit

### Order Information

|                                                             |          | Slide nut                                                                                                                                                                                |                  | Fixing for PCBs                                                                                                                                                       |                                |                                                                                        | Mounting kit for one HF frame type plug-in unit                                                                          |
|-------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
|                                                             |          | M 2.5                                                                                                                                                                                    | M 3              | Individual components                                                                                                                                                 |                                | Complete assembly kit                                                                  |                                                                                                                          |
|                                                             |          |  <p>width across flats (WAF) 7, for insertion into HF body tube, provides lateral fixing (on right)</p> |                  |  <p>bracket (stainless steel), 1.5 mm; please order retention screws separately</p> |                                | bracket top and bottom (stainless steel), 1.5 mm; incl. two cheesehead screws M2.5 x 4 | for complete assembly of a 3 U HF frame type plug-in unit: front panel, rear panel and handle, description see page 7.91 |
| Height U                                                    | Width HP | PU 100 pieces                                                                                                                                                                            | PU 100 pieces    | 1 piece (SPQ 10) <sup>1)</sup>                                                                                                                                        | 1 piece (SPQ 10) <sup>1)</sup> | PU 1 kit                                                                               | PU 1 kit                                                                                                                 |
| 3                                                           | 7        | <b>21100-112</b>                                                                                                                                                                         | <b>21100-289</b> | <b>30809-701</b>                                                                                                                                                      | <b>30809-700</b>               | <b>21101-937</b>                                                                       | <b>21100-105</b>                                                                                                         |
|                                                             | 10       |                                                                                                                                                                                          |                  |                                                                                                                                                                       |                                |                                                                                        |                                                                                                                          |
|                                                             | 12       |                                                                                                                                                                                          |                  |                                                                                                                                                                       |                                |                                                                                        |                                                                                                                          |
|                                                             | 14       |                                                                                                                                                                                          |                  |                                                                                                                                                                       |                                |                                                                                        |                                                                                                                          |
|                                                             | 21       |                                                                                                                                                                                          |                  |                                                                                                                                                                       |                                |                                                                                        |                                                                                                                          |
|                                                             | 28       |                                                                                                                                                                                          |                  |                                                                                                                                                                       |                                |                                                                                        |                                                                                                                          |
| <b>Accessories</b>                                          |          |                                                                                                                                                                                          |                  |                                                                                                                                                                       |                                |                                                                                        |                                                                                                                          |
| Cheesehead screw M2.5 x 4, St, nickel-plated, PU 100 pieces |          | —                                                                                                                                                                                        | —                | <b>21100-431</b>                                                                                                                                                      | <b>21100-431</b>               | —                                                                                      | —                                                                                                                        |

1) SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

Part no. includes one packing unit (PU); delivery is exclusively made in PU



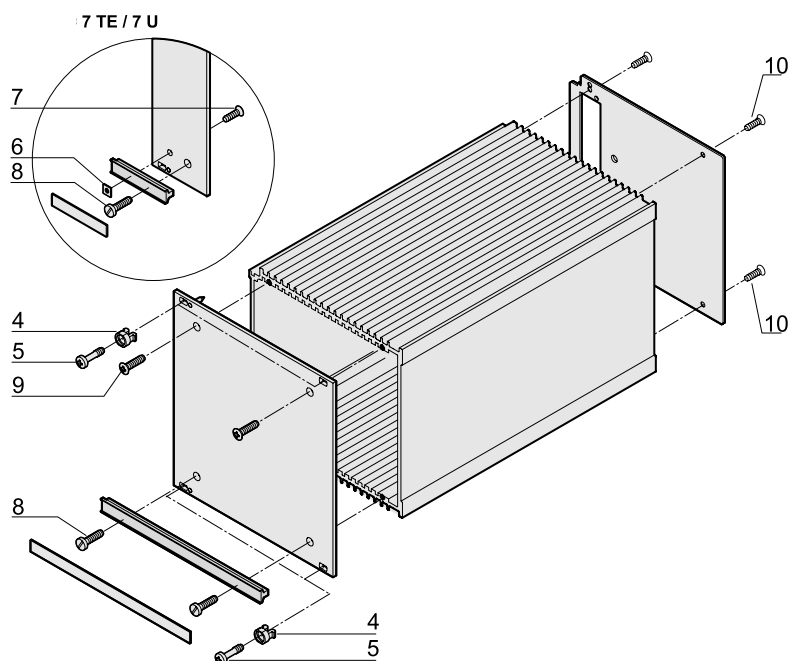
For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

# HF frame type plug-in units ServicePLUS

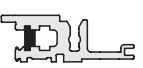
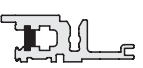
**Individual components**

**Mounting kit (100 pieces)**

## Order Information



04802054

| Description                                                    | Item |                                                                                                 | Required quantity per plug-in unit |           | Description                                                                                     | Qty/PU | Part no.         |
|----------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------|------------------------------------|-----------|-------------------------------------------------------------------------------------------------|--------|------------------|
| Plastic sleeve for form hole 5.9 x 3.3, PA, UL 94 V-2, grey    | 4    | <br>aza45933 | 2                                  | at 7 HP   |              | 100    | <b>21100-464</b> |
|                                                                |      |                                                                                                 | 4                                  | at > 7 HP |                                                                                                 |        |                  |
| Pozidrive/slotted collar screw M2.5 x 11, St, nickel-plated    | 5    | <br>aza46586 | 2                                  | at 7 HP   |              | 100    | <b>21100-748</b> |
|                                                                |      |                                                                                                 | 4                                  | at > 7 HP |                                                                                                 |        |                  |
| Pozidrive/slotted collar screw M2.5 x 12,3, St, nickel-plated  | 5    | <br>aza46586 | 2                                  | at 7 HP   | <br>06107051 | 100    | <b>21101-101</b> |
|                                                                |      |                                                                                                 | 4                                  | at > 7 HP |                                                                                                 |        |                  |
| Square nut DIN 562, M2.5, St, nickel-plated                    | 6    | <br>06705050 | 1                                  | at 7 HP   |                                                                                                 | 100    | <b>21100-359</b> |
| Pozidrive countersunk screw M2.5 x 12, St, nickel-plated       | 7    | <br>aza45177 | 1                                  | at 7 HP   |                                                                                                 | 100    | <b>21100-507</b> |
| Slotted cheesehead screw M2.5 x 16, St, nickel-plated          | 8    | <br>aza45467 | 1                                  | at 7 HP   |                                                                                                 | 100    | <b>21100-150</b> |
|                                                                |      |                                                                                                 | 2                                  | at > 7 HP |                                                                                                 |        |                  |
| Raised Pozidrive countersunk screw M2.5 x 8, St, nickel-plated | 9    | <br>06702056 | 2                                  |           |                                                                                                 | 100    | <b>21100-429</b> |
| Pozidrive countersunk screw M2.5 x 6, St, nickel-plated        | 10   | <br>06702056 | 4                                  |           |                                                                                                 | 100    | <b>21100-515</b> |

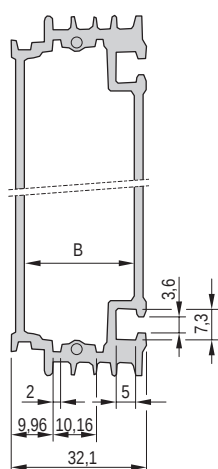
## Note

■ Further collar screws and sleeves see page 7.100

## HF frame type plug-in units ServicePLUS

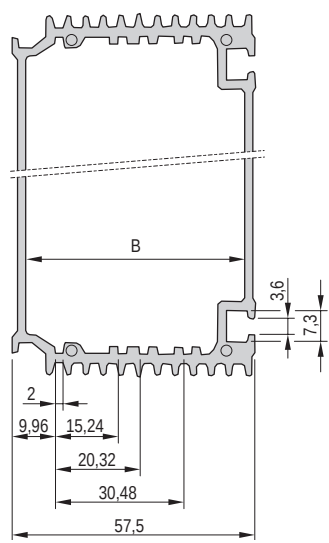
### Dimension drawings HF body tube

7 HP



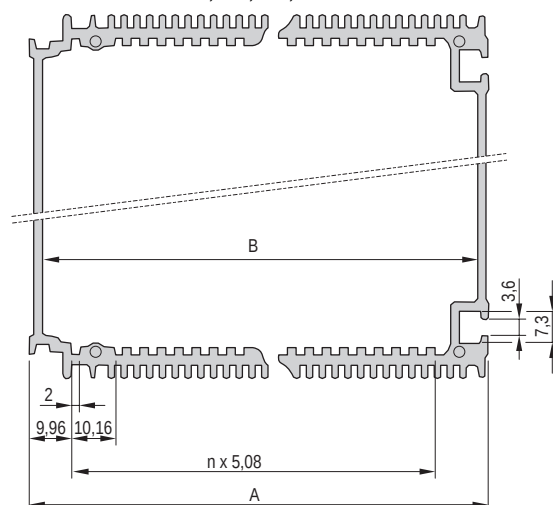
A4-247c

12 HP



04807079

10, 14, 21, 28 HP



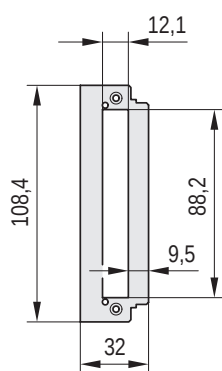
A4-247a

Dimensions table

| Dimension | 7 HP  | 10 HP    | 12 HP | 14 HP    | 21 HP     | 28 HP     |
|-----------|-------|----------|-------|----------|-----------|-----------|
| mm        |       |          |       |          |           |           |
| n         | —     | 3 × 5.08 | —     | 7 × 5.08 | 14 × 5.08 | 21 × 5.08 |
| A         | —     | 47.34    | —     | 67.66    | 103.22    | 138.78    |
| B         | 26.34 | 41.58    | 51.74 | 61.90    | 97.46     | 133.02    |

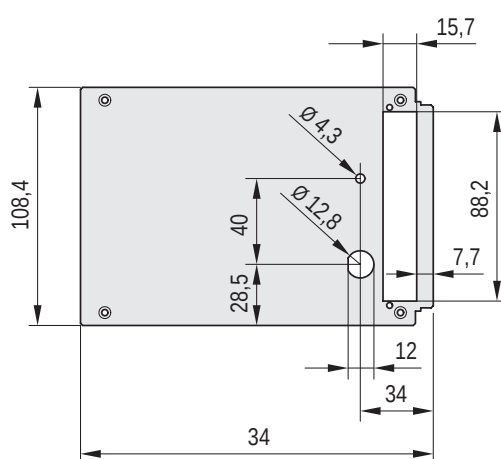
### Dimension drawings rear panel with/without cut-out for single connector

7 HP



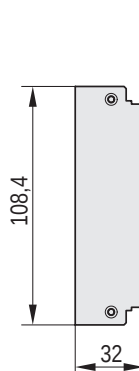
04807086

10, 12, 14, 21, 28 HP



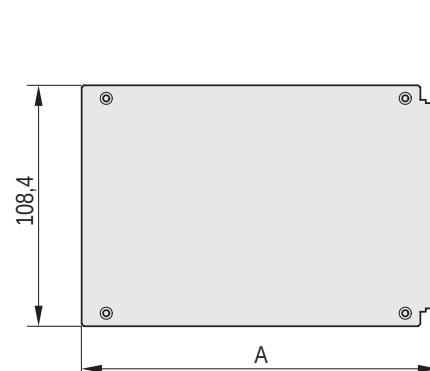
04802053

7 HP



04807087

10, 12, 14, 21, 28 HP



04807083

Dimensions table

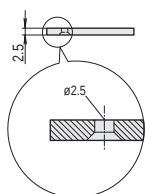
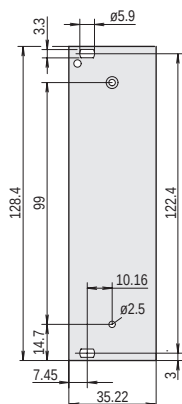
| width | A      |
|-------|--------|
| mm    |        |
| 7 HP  | 32.00  |
| 10 HP | 47.24  |
| 12 HP | 57.40  |
| 14 HP | 67.40  |
| 21 HP | 103.12 |
| 28 HP | 136.68 |

# HF frame type plug-in units ServicePLUS

## Dimension drawings front panels

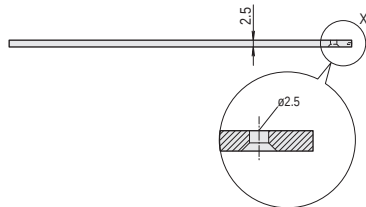
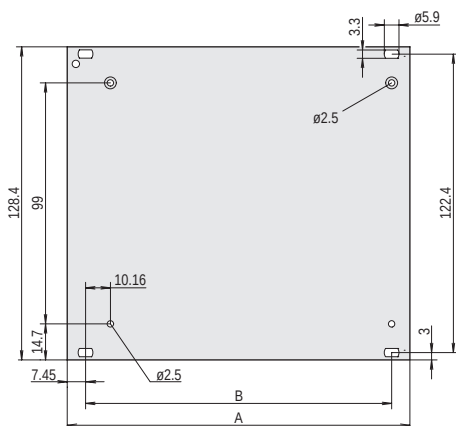
Unshielded

7 HP



KAA43073

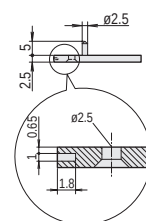
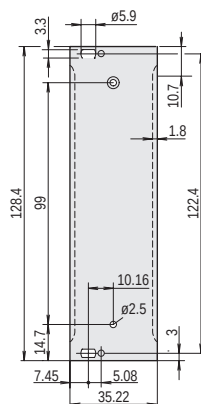
10, 12, 14, 21, 28 HP



04807084

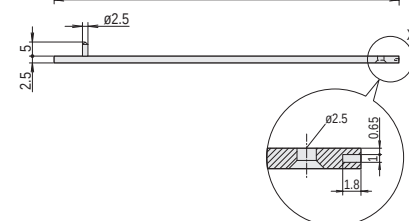
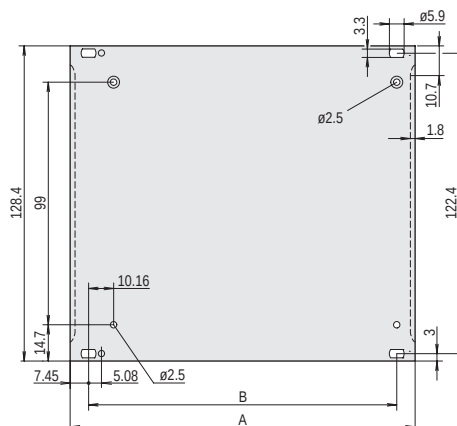
Shieldable, slotted for EMC stainless steel gasket

7 HP



04807085

10, 12, 14, 21, 28 HP

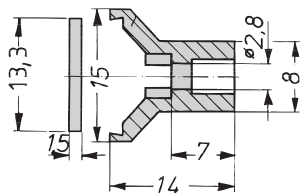


04803052

### Dimensions table

| width | A      | w      |
|-------|--------|--------|
|       | mm     | mm     |
| 7 HP  | 32.22  | —      |
| 10 HP | 50.46  | 35.56  |
| 12 HP | 60.62  | 45.72  |
| 14 HP | 70.78  | 55.88  |
| 21 HP | 106.34 | 91.44  |
| 28 HP | 141.90 | 127.00 |

## Dimension drawings front handle



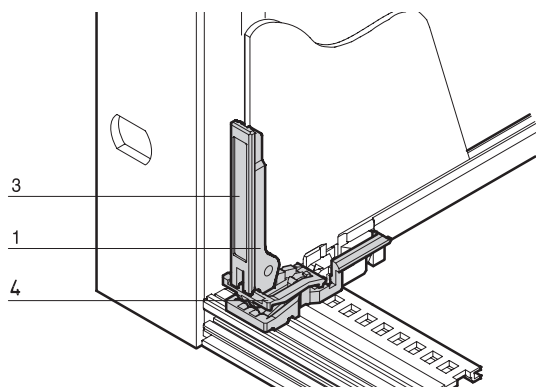
A4-328e

### Dimensions table

| Width | Width |
|-------|-------|
| HP    | mm    |
| 10 HP | 49.4  |
| 12 HP | 59.6  |
| 14 HP | 69.7  |
| 21 HP | 105.2 |
| 28 HP | 140.8 |

## PCB accessories

### PCB handle C



BPA45909

- For europacPRO, multipacPRO, ratiopacPRO, propacPRO and compacPRO
- Mounts behind front panel
- Insertion and extraction
- Can be labelled
- In accordance with IEC 60297-3-102

#### Order Information

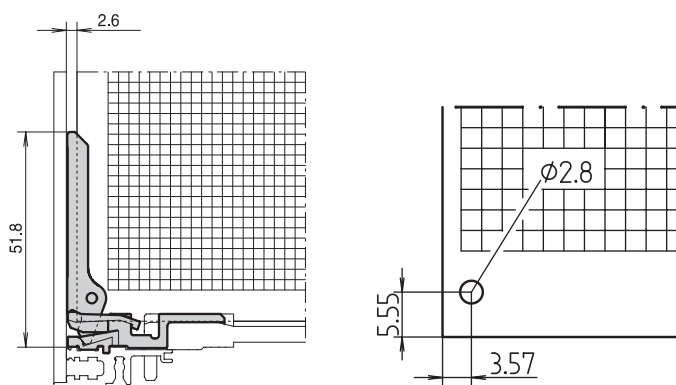
| Item | Description                                 | Material                      | Colour     | Qty /PU | Part no.         |
|------|---------------------------------------------|-------------------------------|------------|---------|------------------|
| 1    | PCB handle C                                | PBT, UL 94 V-0                | red        | 10      | <b>24560-378</b> |
| 3    | Identification strip (1 sheet = 438 pieces) | Polyester film, self-adhesive | white/matt | 1       | <b>60817-228</b> |

#### Note

- Minimum spacing of guide rails 3 HP
- For board thickness 160 mm
- Please order PCB retainer C separately

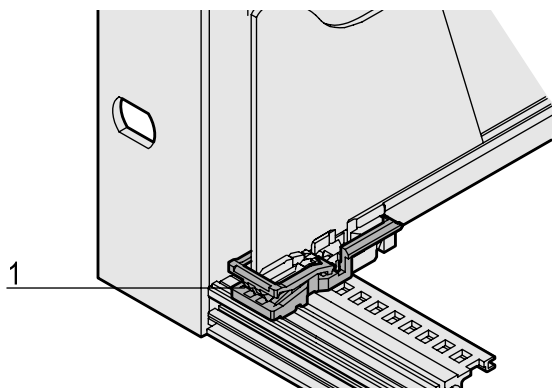


For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.



BPA45910 BPA45910

### PCB retainer C



06002057

- For europacPRO, multipacPRO, ratiopacPRO, propacPRO and compacPRO
- For fixing PCBs
- Can also be used without PCB handle
- Application on top and bottom horizontal rail with "accessory" type guide rail

#### Order Information

| Item | Description    | Material       | Colour | Qty/PU | Part no.         |
|------|----------------|----------------|--------|--------|------------------|
| 1    | PCB retainer C | PBT, UL 94 V-0 | red    | 10     | <b>24560-377</b> |

#### Note

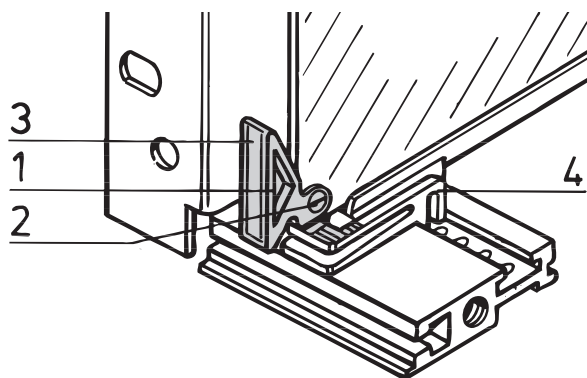
- Minimum spacing of the guide rail 3 HP
- Groove width 2 mm



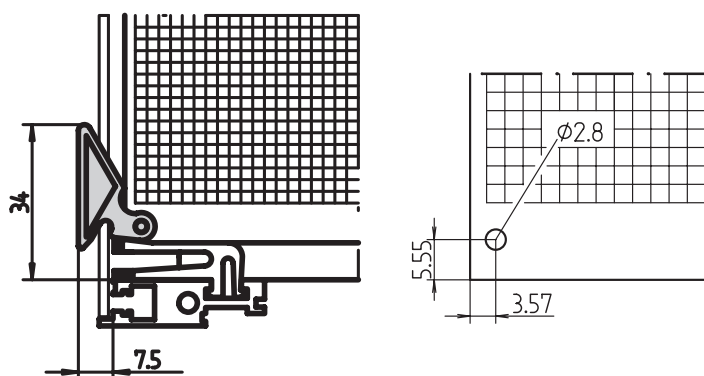
For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

## PCB accessories

### PCB handle B1



B42729



BZB42725 BZA42724

- For bolting or riveting to 1.6 mm PCBs (top and bottom)
- Can be labelled
- Extraction function only

#### Order Information

| Item | Description                  | Material                      | Colour | Qty/PU          | Part no.         |
|------|------------------------------|-------------------------------|--------|-----------------|------------------|
| 1    | PCB handle, bolt-on          | PBT, UL 94 V-0                | red    | 1 piece (SPQ 5) | <b>60817-067</b> |
| 1a   | PCB handle for rivet fitting | PBT, UL 94 V-0                | red    | 1 piece (SPQ 5) | <b>60817-072</b> |
| 2    | Countersunk screw            | St, nickel-plated             | –      | 100             | <b>21100-515</b> |
| 2a   | Tubular rivet                | Brass                         | –      | 100             | <b>21100-076</b> |
| 3    | Identification strip         | Polyester film, self-adhesive | white  | 100             | <b>21100-569</b> |

SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity: Therefore please order at least 10 pieces PCB handles or a multiple thereof

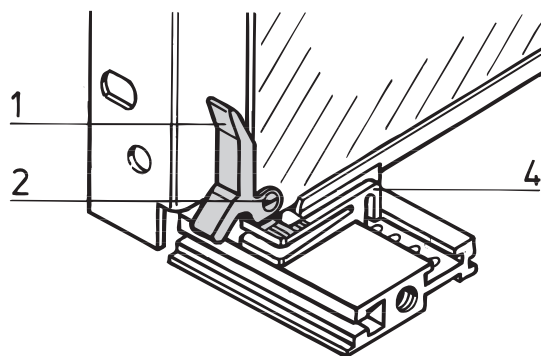
#### Note

- Can be used with PCB retainer B1, B2, see page 7.96

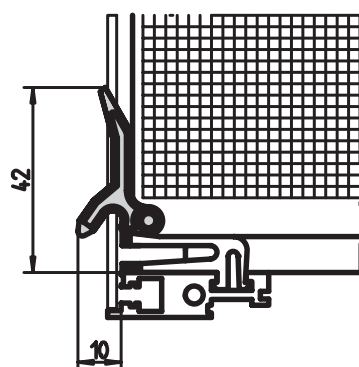


For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

### PCB handle B2



BZA46427



BZB42726

- For bolting to PCBs (1.6 mm); can only be used on bottom horizontal rail
- Extraction function only
- Can be labelled

#### Order Information

| Item | Description                               | Material          | Colour | Qty/PU          | Part no.         |
|------|-------------------------------------------|-------------------|--------|-----------------|------------------|
| 1    | PCB handle                                | PBT, UL 94 V-0    | red    | 1 piece (SPQ 5) | <b>60817-055</b> |
| 2    | Socket cap head screw with slot, M2.5 x 6 | St, nickel-plated | –      | 100             | <b>21100-146</b> |

SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity: Therefore please order at least 10 pieces PCB handles or a multiple thereof

#### Note

- Can be used with PCB retainer B1, B2, see page 7.96

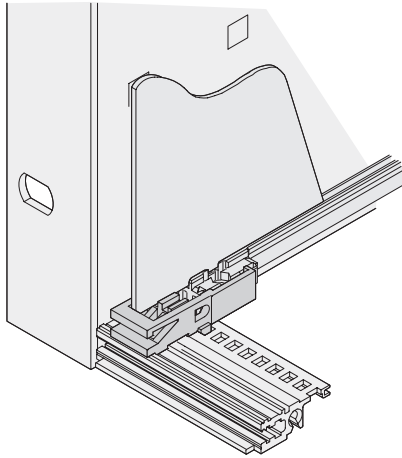


For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.



## PCB accessories

### PCB retainer B1, B2



06109050

- For fixing PCBs
- Can also be used without PCB handle
- Application on top and bottom horizontal rail
- Suitable for PCB handles B1 and B2

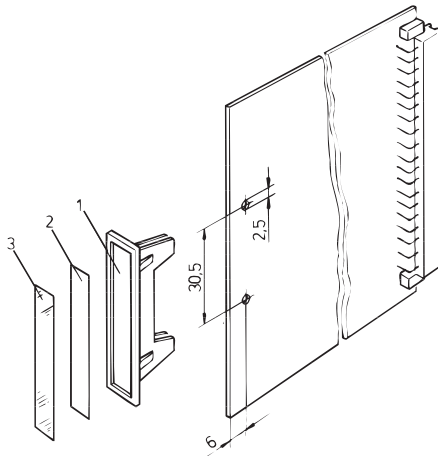
#### Order Information

| Description         | Material       | Colour | Qty/PU | Part no.         |
|---------------------|----------------|--------|--------|------------------|
| PCB retainer B1, B2 | PPO, UL 94 V-0 | red    | 10     | <b>24560-381</b> |

#### Note

- Groove width 2 mm

### PCB handle, snap-on



A3261

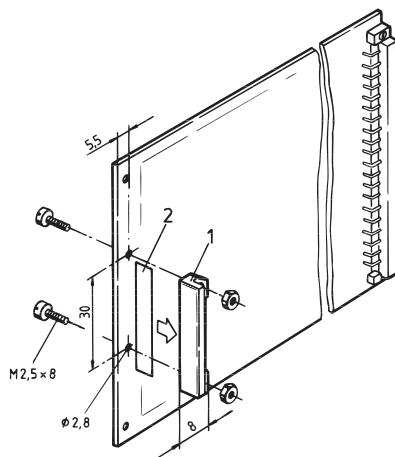
- For board thickness 1.6 mm

#### Order Information

| Item                                                                | Description               | Material       | Colour | Qty             | Part no.         |
|---------------------------------------------------------------------|---------------------------|----------------|--------|-----------------|------------------|
| 1                                                                   | PCB handle, can be locked | PPE, UL 94 V-1 | grey   | 1 piece (SPQ 5) | <b>60800-039</b> |
| 1                                                                   | PCB handle, can be locked | PPE, UL 94 V-1 | red    | 1 piece (SPQ 5) | <b>60800-045</b> |
| <b>Transparent strips</b><br>Item 3, 50 x 5 x 0.3 mm, PU 100 pieces |                           |                |        |                 | <b>69000-007</b> |

SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity: Therefore please order at least 10 pieces PCB handles or a multiple thereof

### PCB handle, can be bolted/riveted



A4-1302

- for board thickness 1.6 mm

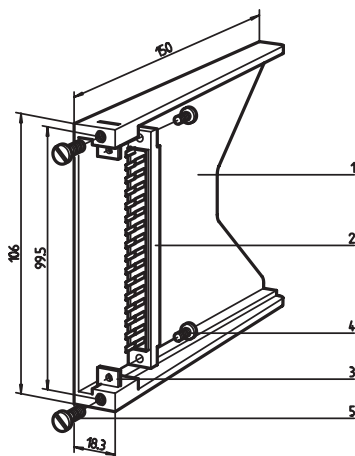
#### Order Information

| Item                                                                                        | Description                       | Material | Colour | Qty             | Part no.         |
|---------------------------------------------------------------------------------------------|-----------------------------------|----------|--------|-----------------|------------------|
| 1                                                                                           | PCB handle, can be bolted/riveted | Acrylic  | yellow | 1 piece (SPQ 5) | <b>60817-050</b> |
| 2                                                                                           | PCB handle, can be bolted/riveted | Acrylic  | red    | 1 piece (SPQ 5) | <b>60817-051</b> |
| 1                                                                                           | PCB handle, can be bolted/riveted | Acrylic  | green  | 1 piece (SPQ 5) | <b>60817-052</b> |
| <b>Identification strip</b> Item 2, carton, white, 37.5 x 7 x 0.15 mm, 1 sheet = 105 pieces |                                   |          |        |                 | <b>69000-969</b> |
| <b>Pozidrive panhead screw</b> M2.5 x 8, St, nickel-plated, PU 100 pieces                   |                                   |          |        |                 | <b>21101-069</b> |
| <b>Hexagon nut</b> A 2.5, nickel-plated, PU 100 pieces                                      |                                   |          |        |                 | <b>21100-144</b> |
| <b>Tubular rivet</b> B2.5 x 0.25 x 5, St/ brass, untreated, PU 100 pieces                   |                                   |          |        |                 | <b>21100-459</b> |

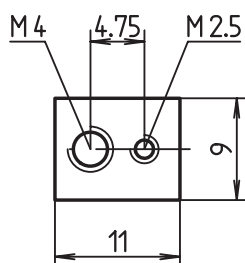
SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity: Therefore please order at least 10 pieces PCB handles or a multiple thereof

## PCB accessories

### PCB pocket



Retention bracket (DIN 41 612)



LKA42605

- Accepts PCBs in euroboard format, 100 × 160 mm
- For female connectors to EN 60603 (DIN 41612)

#### Delivery comprises (kit)

| Item | Qty | Description                                  |
|------|-----|----------------------------------------------|
| 1    | 1   | PCB pocket, PBT (P), grey, UL 94 V-0         |
| 3    | 2   | Retention bracket, St, 2 mm, nickel-plated   |
| 4    | 2   | Cheesehead screw M2.5 × 6, St, nickel-plated |
| 5    | 2   | Cheesehead screw M4 × 12, St, nickel-plated  |

#### Order Information

| Item | Description | Material | Colour | Qty/PU | Part no.         |
|------|-------------|----------|--------|--------|------------------|
| 1    | PCB pocket  | PBT (P)  | grey   | 1      | <b>20800-032</b> |

#### Note

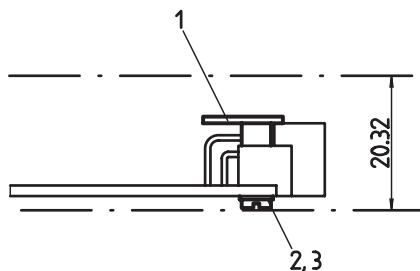
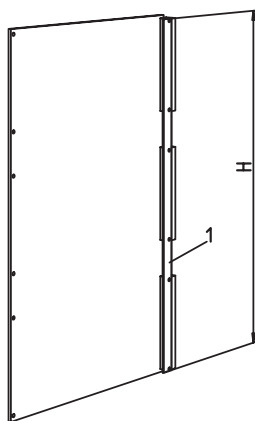
- Connector (item 2) see chapter Accessories - Connectors, page 11.2



For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

LKA42606

### PCB reinforcement (9 U)



LKA42609

- Protects large PCBs from sagging
- Links all connectors together as a second web (corresponds to IEEE recommendations, P 896, Nubus, Multibus® II etc.)
- Fixing points match connectors compatible with EN 60603 (DIN 41612), types B, R, C and D

#### Delivery comprises (kit)

| Item | Qty | Description                                                                                       |
|------|-----|---------------------------------------------------------------------------------------------------|
| 1    | 1   | PCB reinforcement, Al extrusion, anodised, cut edges plain; separator, stainless steel, bolted on |
| 2    | 6   | Cheesehead screw M 2.5 × 12, St, nickel-plated                                                    |
| 3    | 6   | Washer 2.6, St, nickel-plated                                                                     |

#### Order Information

| Description  | Height H<br>mm | Part no.         |
|--------------|----------------|------------------|
| For 9 U PCBs | 361.6          | <b>20809-441</b> |

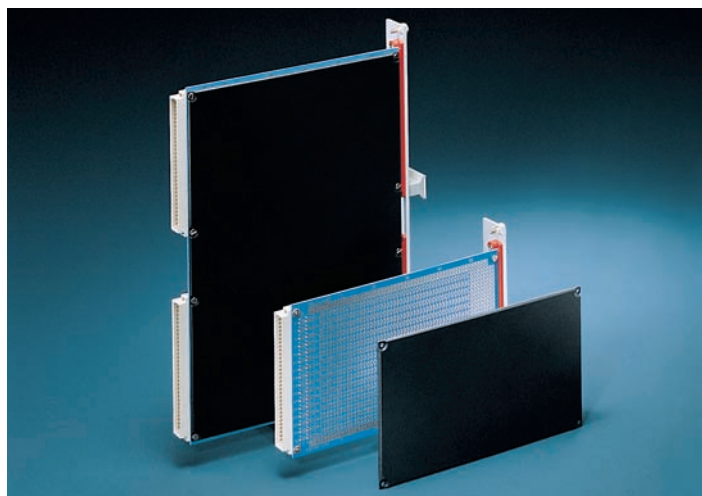


For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

LKA42593

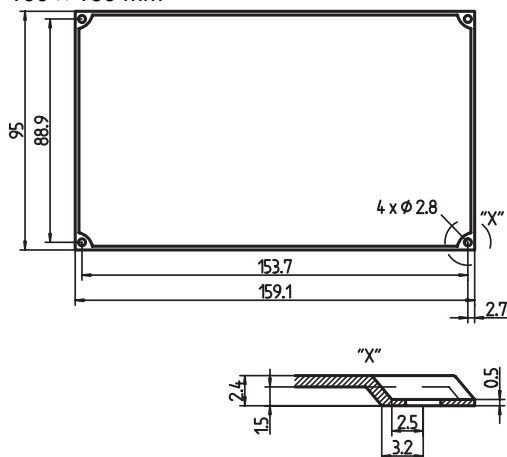
## PCB accessories

### PCB covers



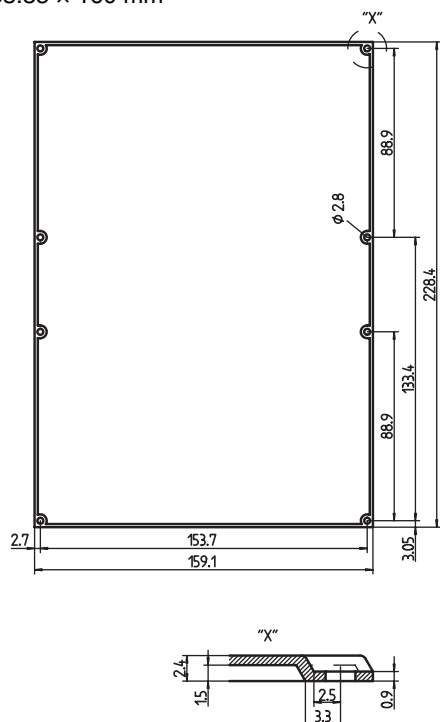
11092008

For PCB 100 × 160 mm



LKA40520

For PCB 233.35 × 160 mm



LKA30451

■ Mechanical protection of the solder side

#### Order Information

| Description                                                                                                                | Qty        | Part no.         |
|----------------------------------------------------------------------------------------------------------------------------|------------|------------------|
| PCB cover for euroboards (100 x 160 mm), PBT, UL 94 V-0, black                                                             | 1 (SPQ 10) | <b>61000-007</b> |
| PCB cover with temperature expansion coefficient similar to FRA4 PCB; for euroboards (100 x 160 mm), LCP, UL 94 V-0, white | 1 (SPQ 10) | <b>61000-177</b> |
| Board cover for double euroboards (233.35 x 160 mm), PP, UL 94 V-0, black                                                  | 1 (SPQ 10) | <b>61000-012</b> |
| <b>Slotted flathead screw</b><br>M2.5 × 6, height of head 1.2 mm, PU 100 pieces                                            |            | <b>21102-007</b> |
| <b>Slotted flathead screw</b><br>M2.5 × 12, height of head 1.2 mm, PU 100 pieces                                           |            | <b>21102-008</b> |

SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity: Therefore please order at least 10 pieces of PCB covers or a multiple thereof

#### Note

■ For further PCB covers see page 8.111



For further information [www.schroff.biz/oneclick](http://www.schroff.biz/oneclick)  
oneClick search code = Part no.

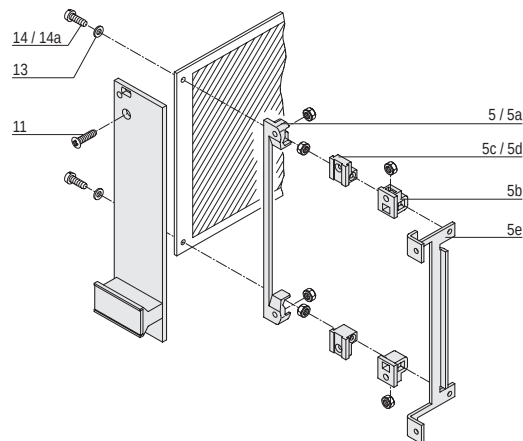
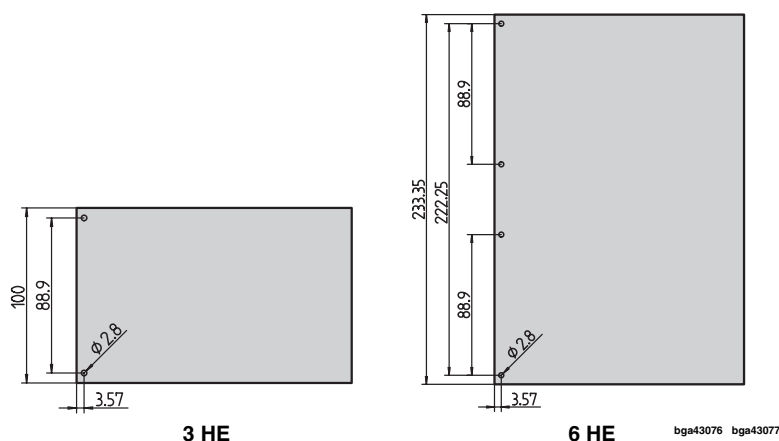
## PCB accessories

### Individual components

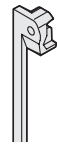
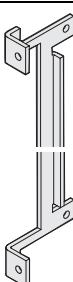
### PCB supports for cantilever handle without extraction function

#### Assembly kit for extractor handle in key form 2

##### Drill hole dimensions on PCB



bza46430

| Assembly kit                                                                                                                                                                                                                           | Item |                                                                                                 | Required quantity |     | Qty/PU                   | Part no.         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------|-------------------|-----|--------------------------|------------------|
|                                                                                                                                                                                                                                        |      |                                                                                                 | 3 U               | 6 U |                          |                  |
| PCB bracket<br>4 clearance holes to front panel/PCB fixing,<br>4 recesses for hexagon nuts;<br>PBT, UL 94 V-0, red                                                                                                                     | 5    |               | 1                 | 2   | 1 (SPQ 10) <sup>1)</sup> | <b>60807-011</b> |
| PCB bracket<br>4 M2.5 threads for front panel/PCB fixing,<br>PBT, UL 94 V-0, grey, 1 piece                                                                                                                                             | 5a   | <br>06702057 | 1                 | 2   | 1 (SPQ 10) <sup>1)</sup> | <b>60807-211</b> |
| PCB bracket<br>Clearance hole for front panel fixing, with recess for hexagon nut,<br>drill hole for self-tapping screw for PCB fixing,<br>PBT, UL 94 V-0, grey, 1 piece                                                               | 5b   | <br>06702057 | 2                 | 4   | 1 (SPQ 10) <sup>1)</sup> | <b>60807-183</b> |
| PCB bracket<br>2 M2.5 threads for front panel/PCB fixing,<br>die-cast zinc, 1 piece                                                                                                                                                    | 13   | <br>04608074 | 2                 | 4   | 1 (SPQ 10) <sup>1)</sup> | <b>60807-181</b> |
| PCB bracket<br>Thread M2.5 for front panel fixing, clearance hole for PCB fixing,<br>die-cast zinc, 1 piece                                                                                                                            | 5d   | <br>04608074 | 2                 | 4   | 1 (SPQ 10) <sup>1)</sup> | <b>60807-203</b> |
| PCB bracket<br>4 M2.5 threads for fixing of front panel/PCB for recessed mounting<br>of PCB (20 mm), mounting depth 192.24 mm,<br>St, zinc-plated;<br>not for europacPRO, multipacPRO, ratiopacPRO, propacPRO or<br>compacPRO, 1 piece | 5e   | <br>AZA46586 | 1                 | 2   | 1 (SPQ 10) <sup>1)</sup> | <b>30808-871</b> |

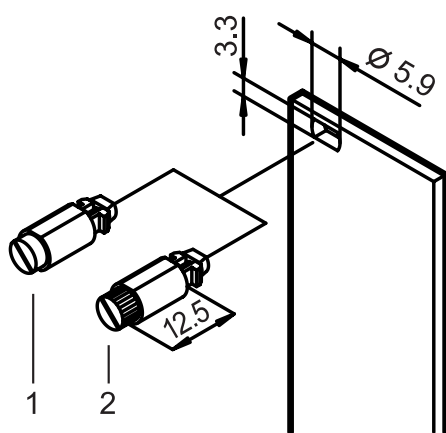
1) SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

## Assembly parts

### Assembly parts

- Quick-release fasteners
- Sleeves
- Screws
- Cage nuts
- Tools

### Quick-release fasteners



06702062

- Vibration and shock proof
- 1/4 rotary lock with defined stop
- Detection of fastening position through slot position

#### Delivery comprises

| Qty | Description                           |
|-----|---------------------------------------|
| 1   | Locking pin, St, locking, Zn die-cast |
| 1   | Press-in sleeve, POM                  |

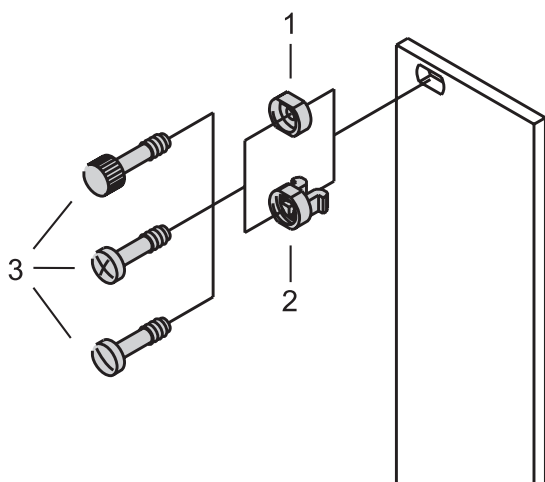
#### Order Information

| Item | Description                          | Qty/PU | Part no.         |
|------|--------------------------------------|--------|------------------|
| 1    | With slotted head, grey              | 100    | <b>21101-847</b> |
| 1    | With slotted head, black             | 100    | <b>21101-848</b> |
| 2    | With knurled and slotted head, grey  | 100    | <b>21101-849</b> |
| 2    | With knurled and slotted head, black | 100    | <b>21101-850</b> |

#### Note

Quick-release fasteners: mounting without threaded insert

### Sleeves



06702061

#### Order Information

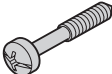
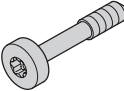
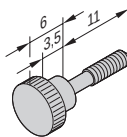
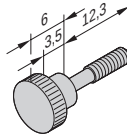
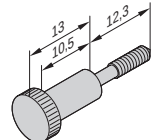
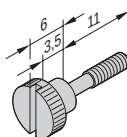
| Item | Description                        | Qty/PU | Part no.         |
|------|------------------------------------|--------|------------------|
| 2    | Plastic sleeve, PA, grey           | 100    | <b>21100-464</b> |
| 2    | Plastic sleeve, PA, black          | 100    | <b>21100-591</b> |
| 1    | Metal sleeve, brass, nickel-plated | 10     | <b>21100-659</b> |
| 1    | Metal sleeve, brass, nickel-plated | 100    | <b>21100-660</b> |
| 1    | Metal sleeve, brass, black         | 100    | <b>21100-886</b> |
| 1    | Metal sleeves, stainless steel     | 10     | <b>21100-661</b> |
| 1    | Metal sleeves, stainless steel     | 100    | <b>21100-662</b> |

#### Note

- Metal sleeves must be pressed-in into front panels
- Sleeve does not fit 2 HP wide front panels
- Please order collar screw (item 3) separately, see page 7.101

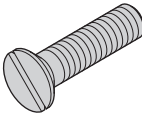
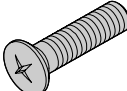
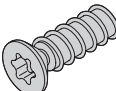
## Assembly parts

### Collar screws

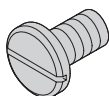
|                                                                                                                                                                                                                                                                                                             | Description                             | Material               | Dimension   | Qty/PU | Part no.         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------|-------------|--------|------------------|
|                                                                                                                                                                                                                                                                                                             |                                         |                        |             |        |                  |
|  <p>AZA46586</p>                                                                                                                                                                                                           | Pozidrive/slotted collar screw          | St, nickel-plated      | M2.5 × 11   | 100    | <b>21100-748</b> |
|                                                                                                                                                                                                                                                                                                             |                                         | St, zinc-plated, black | M2.5 × 11   | 100    | <b>21100-749</b> |
|                                                                                                                                                                                                                                                                                                             |                                         | V2A                    | M2.5 × 11   | 100    | <b>21101-323</b> |
|                                                                                                                                                                                                                                                                                                             |                                         | St, nickel-plated      | M2.5 × 12.3 | 100    | <b>21101-101</b> |
|                                                                                                                                                                                                                                                                                                             |                                         | St, zinc-plated, black | M2.5 × 12.3 | 100    | <b>21101-102</b> |
|                                                                                                                                                                                                                                                                                                             |                                         | V2A                    | M2.5 × 12.3 | 100    | <b>21101-906</b> |
|  <p>AZA45941</p>                                                                                                                                                                                                           | Collar screw with Torx                  | St, nickel-plated      | M2.5 × 12.3 | 100    | <b>21101-782</b> |
|                                                                                                                                                                                                                                                                                                             |                                         | St, zinc-plated, black | M2.5 × 12.3 | 100    | <b>21101-783</b> |
|  <p>06709050</p>  <p>06709051</p>  <p>06709052</p> | Collar screw with knurled head          | Brass, nickel-plated   | M2.5 × 11   | 50     | <b>21100-268</b> |
|                                                                                                                                                                                                                                                                                                             |                                         | Brass, nickel-plated   | M2.5 × 12.3 | 100    | <b>21101-749</b> |
|                                                                                                                                                                                                                                                                                                             |                                         | Brass, nickel-plated   | M2.5 × 12.3 | 100    | <b>21101-909</b> |
|  <p>06709053</p>                                                                                                                                                                                                         | Collar screw with knurled head and slot | Brass, nickel-plated   | M2.5 × 11   | 100    | <b>21101-106</b> |

## Assembly parts

### Countersunk screws

|                                                                                    | Description                               | Material               | Dimension | Qty/PU | Part no.         |
|------------------------------------------------------------------------------------|-------------------------------------------|------------------------|-----------|--------|------------------|
|    | Pozidrive countersunk screw               | St, nickel-plated      | M2,5 × 6  | 100    | <b>21100-515</b> |
|                                                                                    |                                           | Nickel-plated steel    | M2,5 × 12 | 100    | <b>21100-507</b> |
| aza45182                                                                           |                                           |                        |           |        |                  |
|    | Countersunk screw with Torx, self-tapping | St, zinc-plated        | M4 × 5    | 100    | <b>24560-139</b> |
|                                                                                    |                                           | St, zinc-plated        | M4 × 14   | 100    | <b>24560-145</b> |
| AZA46585                                                                           |                                           |                        |           |        |                  |
|  | Raised Pozidrive countersunk screw        | Nickel-plated steel    | M2,5 × 8  | 100    | <b>21100-429</b> |
|                                                                                    |                                           | Nickel-plated steel    | M2,5 × 10 | 100    | <b>21100-500</b> |
|                                                                                    |                                           | St, zinc-plated, black | M2,5 × 10 | 100    | <b>21100-649</b> |
|                                                                                    |                                           | Nickel-plated steel    | M3 × 8    | 100    | <b>21100-542</b> |
|                                                                                    |                                           | St, zinc-plated, black | M3 × 8    | 100    | <b>21100-648</b> |
| 06702056                                                                           |                                           |                        |           |        |                  |
|  | Countersunk screw with Torx, self-tapping | St, zinc-plated        | 2,5 × 7,7 | 100    | <b>24560-158</b> |
| 06707057                                                                           |                                           |                        |           |        |                  |

### Assembly parts for drives



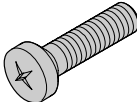
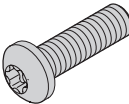
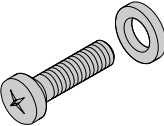
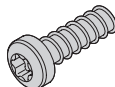
06706053

#### Order Information

| Description                          | Qty/PU | Part no.         |
|--------------------------------------|--------|------------------|
| Slotted flathead screw, 6-32 UNC x 6 | 100    | <b>21100-712</b> |

## Assembly parts

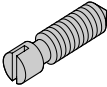
### Panhead screws

| Description                                                                         |                                       | Material               | Dimension | Qty/PU | Part no.         |
|-------------------------------------------------------------------------------------|---------------------------------------|------------------------|-----------|--------|------------------|
|    | Panhead Pozidrive countersunk screw   | St, nickel-plated      | M2.5 × 5  | 100    | <b>21101-314</b> |
|                                                                                     |                                       | St, nickel-plated      | M2.5 × 6  | 100    | <b>21101-219</b> |
|                                                                                     |                                       | St, nickel-plated      | M2.5 × 8  | 100    | <b>21101-069</b> |
|                                                                                     |                                       | St, nickel-plated      | M2.5 × 10 | 100    | <b>21101-220</b> |
|                                                                                     |                                       | St, nickel-plated      | M2.5 × 12 | 100    | <b>21101-221</b> |
|                                                                                     |                                       | St, nickel-plated      | M2.5 × 16 | 100    | <b>21101-222</b> |
|                                                                                     |                                       | St, zinc-plated        | M5 × 12   | 100    | <b>21100-788</b> |
| 06702057                                                                            |                                       |                        |           |        |                  |
|  | Countersunk screw with torx           | St, zinc-plated        | M2.5 × 6  | 100    | <b>24560-159</b> |
|                                                                                     |                                       | St, nickel-plated      | M2.5 × 7  | 100    | <b>24560-147</b> |
|                                                                                     |                                       | St, nickel-plated      | M2.5 × 10 | 100    | <b>24560-148</b> |
|                                                                                     |                                       | St, nickel-plated      | M2.5 × 12 | 100    | <b>24560-161</b> |
|                                                                                     |                                       | St, nickel-plated      | M2.5 × 14 | 100    | <b>24560-162</b> |
|                                                                                     |                                       | St, zinc-plated        | M4 × 6    | 100    | <b>24560-135</b> |
|                                                                                     |                                       | St, zinc-plated        | M4 × 6    | 100    | <b>24560-151</b> |
|                                                                                     |                                       | St, zinc-plated        | M4 × 10   | 100    | <b>24560-155</b> |
| AZA45940                                                                            |                                       |                        |           |        |                  |
|  | Screw + securing washer               | St, nickel-plated      | M2.5 × 12 | 100    | <b>21100-777</b> |
|                                                                                     |                                       | 06702051               |           |        |                  |
|  | Panhead screw with Torx, self-tapping | St, zinc-plated, black | 2.5 × 7.3 | 100    | <b>24560-157</b> |
|                                                                                     |                                       | 06707058               |           |        |                  |
|                                                                                     |                                       | St, zinc-plated        | 2.5 × 9.3 | 100    | <b>24560-141</b> |



## Assembly parts

### Grub screws

|  | Description | Material          | Dimension | Qty/PU | Part no.         |
|----------------------------------------------------------------------------------|-------------|-------------------|-----------|--------|------------------|
|                                                                                  | Grub screw  | stainless steel   | M2.5 × 9  | 100    | <b>21101-359</b> |
|                                                                                  |             | St, nickel-plated | M2.5 × 8  | 100    | <b>21100-276</b> |
|                                                                                  |             | St, zinc-plated   | M3.0 × 8  | 100    | <b>21100-646</b> |

06702053

### Washers

|   | Description       | Material          | Dimension    | Qty/PU | Part no.         |
|-----------------------------------------------------------------------------------|-------------------|-------------------|--------------|--------|------------------|
|                                                                                   | Washer            | Plastic, PA       | 2.7 × 5 × 1  | 100    | <b>21101-121</b> |
|                                                                                   |                   | St, nickel-plated | A2.7 DIN 125 | 100    | <b>21100-721</b> |
|  | Shakeproof washer | St, nickel-plated | A 2.6        | 100    | <b>21100-142</b> |

AZA45178

AZA45180

### Nuts

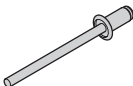
|  | Description | Material          | Dimension | Qty/PU | Part no.         |
|------------------------------------------------------------------------------------|-------------|-------------------|-----------|--------|------------------|
|                                                                                    | Hexagon nut | St, nickel-plated | M2.5      | 100    | <b>21100-144</b> |
|                                                                                    | Square nut  | St, nickel-plated | M2.5      | 100    | <b>21100-359</b> |
|  |             | St, zinc-plated   | M4        | 100    | <b>24560-140</b> |

AZA43239

04608074

AZA45921

### Tubular rivets

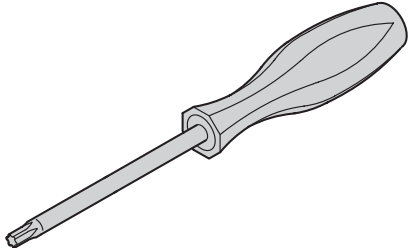
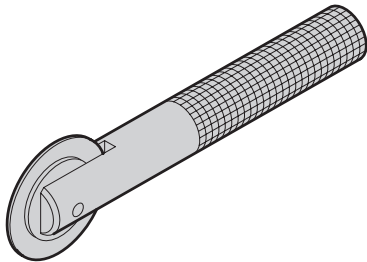
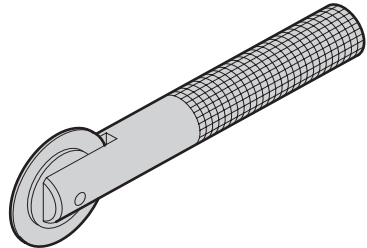
|  | Description   | Material      | Dimension       | Qty/PU | Part no.         |
|------------------------------------------------------------------------------------|---------------|---------------|-----------------|--------|------------------|
|                                                                                    | Tubular rivet | St/brass, raw | B2.5 × 0.25 × 5 | 100    | <b>21100-459</b> |

AZA45926

## Assembly parts

### Assembly tools

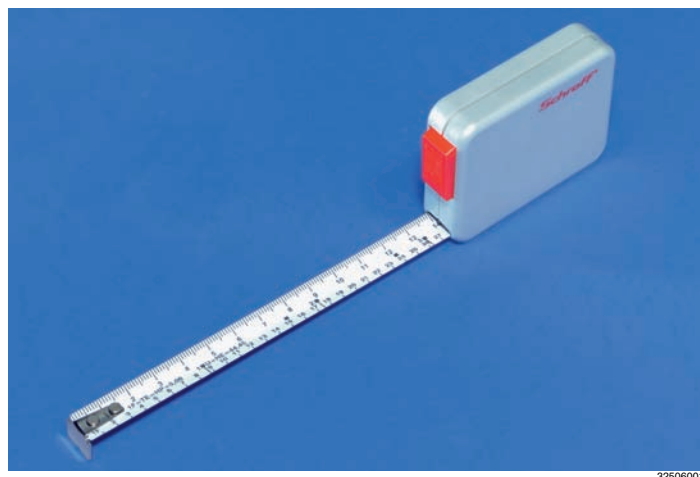
#### Order Information

| Description                                                                                                                      | Application                                                                       | Dimension | Qty/PU | Part no.         |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------|--------|------------------|
|                                                                                                                                  |                                                                                   |           |        |                  |
| <br><small>AZA45925</small><br>Torx screwdriver | For M2.5 screws                                                                   | T8 x 60   | 1      | <b>64560-026</b> |
|                                                                                                                                  | for M4 screws                                                                     | T20 x 100 | 1      | <b>64560-027</b> |
| <br><small>aza45938</small><br>Assembly tools   | Exclusively for mounting EMC stainless steel contact strips on horizontal rails   | —         | 1      | <b>24560-271</b> |
| <br><small>aza45937</small><br>Assembly tools  | For mounting EMC stainless steel contact strips on front panels with lateral slot | —         | 1      | <b>24560-270</b> |

#### Note

- Assembly tool for insertion of keying/coding pegs in guide rails is available on request

### Tape measure



32506001

- Tape measure with cm, U and HP division (length 2 m)
- Outer casing plastic, metal measuring band with automatic retraction

#### Order Information

| Description  | Qty/PU | Part no.         |
|--------------|--------|------------------|
| Tape measure | 1      | <b>89009-001</b> |

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